

October 15, 2001

Mr. Femi Akindele Residual Project Manager Kentucky/Tennessee Section U.S. Environmental Protection Agency Region IV 61 Forsyth Street Atlanta, GA 30303

Re: Sampling Event # 27, Result of Groundwater Quality Monitoring - FY 01, First Quarter (FY02-1Q), Lees Lane Superfund Site, Jefferson County, Kentucky, Administrative Order on Consent, USEPA Docket No-91-32-C

Dear Mr. Akindele

In accordance with paragraph 11, under Reporting Requirements, of the subject Consent Order and Attachment 1, Operation and Maintenance Plan For Post-Removal Site Control at the Lee's Lane Landfill Site. Section 4.4, Groundwater Quality Monitoring, attached for your information files is one photocopy each of the following analyses and reports prepared by Heritage Laboratories. Inc., 7901 W. Morris Street, Indianapolis, Indiana 46231 for MSD.

The data package contains all of the analytical results and Quality Assurance reports for samples relating to the event.

Certificate of Analysis					
WELL	SAMPLE	LAB	REPORT		
<u>LOCATION</u>	DESCRIPTION	<u>ID</u>	<u>LENGTH</u>		
MW-02	LLMW0227	A566291	8 pages		
MW-04	LLMW0427	A566287	8		
Duplicate	LLMW0427DUP	A566288	8		
MW-05	LLMW0527	A566290	8		
MW-A	LLMWA27	A566293	8		
MW-B	LLMWB27	A566292	8		
Field Blank	LLMW27FB	A566289	8		



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Louisville and Jefferson County Metropolitan Sewer District Louisville, Kentucky 40203-1911 502-540-6000

U.S. EPA REGION IV

SDMS

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** PLEASE CONTACT THE APPROPRIATE RECORDS CENTER TO VIEW THE MATERIAL**

Mr. Femi Akindele October 15, 2001 Page 2

Quality Assurance Reports

DESCRIPTION
Quality Assurance Report

REPORT LENGTH 34 pages

The above identified Certificate of Analysis and Quality Assurance Reports were received by the undersigned on October 15, 2001 and transmitted within the five (5) working day requirement of Paragraph 11 of the Consent Order.

Please advise if you have any questions concerning the attached information.

Sincerely

Richard H. Watkins, Sr. Special Assistant to Director

RHW/rw Lees-02-1Qtr

Enc.

cc:

Kentucky National Resource Environment Protection Cabinet Mr. Rick Hogan, Division of Waste Management

G. R. Garner, Executive Director

Lees Lane File

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, LLC	13-SEP-01		A566291
COMMERCIAL LABORATORY OPERATIONS	Complete	PO Number	
7901 W. MORRIS ST.	25-SEP-01	-01 DP 00151	
INDIANAPOLIS, IN 46231	Printed	Sampled	
(317)243-8304	25-SEP-01	13-SEP-0	1 15:45

Report To

Bill To

DAN SAMMONS, MFWTP IND. WASTE LABORATORY ACCOUNTS PAYABLE LOUISVILLE AND JEFFERSON COUNTY M.S.D. LOUISVILLE & JEFFERSON COUNTY M.S.D. PO BOX 740011 LOUISVILLE, KY 40201 LOUISVILLE, KY 40201

ACCOUNTS PAYABLE LOUISVILLE & JEFFERSON COUNTY M.S.D. PO BOX 740011 LOUISVILLE, KY 40201

Sample Description

CLIENT ID: MW-0227

MATRIX TYPE: NON-SPECIFIC WATER

WELL NUMBER: MW-0227 Submitter Code :4217

VOLATILE ORGANICS SW846-8240B		7. J		NELAC:N
Analyst: H. WILLIAMS Analysis Date: 19-SEP-01 10:17			Test: 0510	9745660646666666649911,91111
Parameter	Result	Det.	Limit	Units
ACETONE	BDL	·	20	ug/L
ACROLEIN	BDL		50	ug/L
ACRYLONITRILE	BDL		_70	ug/L
BENZENE	BDL		5.0	ug/L
BROMODICHLOROMETHANE	BDL		5.0	ug/L
BROMOFORM	BDL		5.0	ug/L
BROMOMETHANE	BDL		10	ug/L
CARBON DISULFIDE	BDL		5.0	ug/L
CARBON TETRACHLORIDE	BDL		5.0	ug/L
CHLOROBENZENE	BDL		5.0	ug/L
CHLOROETHANE	BDL		10	ug/L
CHLOROFORM	BDL		5.0	ug/L
CHLOROMETHANE	BDL		10	ug/L
DIBROMOCHLOROMETHANE	BDL		5.0	ug/L
CIS-1,3-DICHLOROPROPENE	BDL		5.0	ug/L
DICHLORODIFLUOROMETHANE	BDL		5.0	ug/L
1,1-DICHLOROETHANE	BDL		5.0	ug/L
1,2-DICHLOROETHANE	BDL		5.0	ug/L
1,1-DICHLOROETHENE	BDL		5.0	ug/L
1,2-DICHLOROPROPANE	BDL		5.0	ug/L
ETHYLBENZENE	BDL		5.0	ug/L
FLUOROTRICHLOROMETHANE	BDL		5.0	ug/L
2-HEXANONE	BDL		10	ug/L
METHYLENE CHLORIDE	BDL		5.0	ug/L
METHYL ETHYL KETONE	BDL		10	ug/L
4-METHYL-2-PENTANONE	BDL	s 4 🕾	io	ug/L
STYRENE	BDL		5.0	ug/L
1,1,2,2-TETRACHLOROETHANE	WBDL THE AWARD AND AND		5.0	ug/L

LAEONATON OLIVIOLO TERMS & CONDITIONS

- 1. <u>Agreement</u>- To initiate services. Client must sign the Heritage Laboratory Services Quotation form and submit a written purchase order. Submittal of a purchase order and/or samples constitutes acceptance and acknowledgment by Client to be bound by this Agreement.
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 - a. Hemage performed analysis of work for the Chem.
 - b. of negligent acts, errors or omissions of the Client; or
 - c. of Olient's failure to perform its obligations under this Agreement.

Parameter .	Result	Det. Limit	Units
TETRACHLOROETHENE	BDL	5.0	ug/L
TETRAHYDROFURAN	BDL	25	ug/L
TOLUENE	BDL	5.0	ug/L
1,2-DICHLOROETHENE (TOTAL)	BDL	5.0	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5.0	ug/L
1,1,1-TRICHLOROETHANE	BDL	5.0	ug/L
1,1,2-TRICHLOROETHANE	BDL	5.0	ug/L
TRICHLOROETHENE	BDL	5.0	ug/L
VINYL ACETATE	BDL	10	ug/L
VINYL CHLORIDE	BDL	10	ug/L
XYLENE (TOTAL)	BDL	5.0	ug/L

SURROGATE RECOVERY			
DICHLOROETHANE-D4	118		% Rec
TOLUENE-D8	111		% Rec
BROMOFLUOROBENZENE	101		% Rec
Prep Method SW846-5030B Purge and Trap			

GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C Analyst: V. BROWN Analysis Date: 18-SEP-01 Instrument: PREP Test: P233.4.0						
Parameter	Result	Det. Limit	Units			
INITIAL WEIGHT OR VOLUME	990		mL			
FINAL VOLUME	1.0		mL			

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C Analyst: L. CALLAHAN Analysis Date: 21-SEP-01 20:51 Instrument: GC/MS SV0A				
510C P233.4.0	1	T		
Result	Det. Limit	Units		
BDL	10	ug/L		
BDL	10	ug/L		
BDL	10	ug/L		
BDL	10	ug/L		
BDL	10	ug/L		
BDL	10	ug/L		
BDL	10	ug/L		
BDL	10	ug/L		
BDL	10	ug/L		
BDL	10			
BDL	10	ug/L		
BDL	10	ug/L		
BDL		ug/L		
BDL		ug/L		
	Instrument: GC/MS SVOA Result BDL BDL BDL BDL BDL BDL BDL BD	Result		

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 - b. of negligent acts, errors or omissions of the Offenti or
 - c. of Client's failure to perform its obligations under this Agreement.

Parameter	Result	e ID: A5662 Det. Limit	Units
1,3-DICHLOROBENZENE	BDL	10	ug/L
1,4-DICHLOROBENZENE	BDL	ĺ	ug/L
3,3'-DICHLOROBENZIDINE	BDL	20	ug/L
DIETHYLPHTHALATE	BDL	10	
DIMETHYLPHTHALATE	BDL		
	BDL	10	ug/L
DI-N-BUTYLPHTHALATE	BDL	10	ug/L
DINITROBENZENES		50	ug/L
2,4-DINITROTOLUENE	BDL	10	ug/L
2,6-DINITROTOLUENE	BDL	10	ug/L
DI-N-OCTYLPHTHALATE	BDL	10	ug/L
FLUORANTHENE	BDL	10	ug/L
FLUORENE	BDL	10	ug/L
HEXACHLOROBENZENE	BDL	10	ug/L
HEXACHLOROBUTADI ENE	BDL	10	ug/L
HEXACHLOROCYCLOPENTADIENE	BDL	10	ug/L
HEXACHLOROETHANE	BDL	10	ug/L
INDENO(1,2,3-CD)PYRENE	BDL	10	ug/L
ISOPHORONE	BDL	10	ug/L
2-METHYLNAPHTHALENE	BDL	10	ug/L
NAPHTHALENE	BDL		ug/L
2-NITROANILINE	BDL	50	ug/L
3-NITROANILINE	BDL	50	ug/L
4-NITROANILINE	BDL	50	ug/L
NITROBENZENE	BDL	10	ug/L
N-NITROSO-DIPHENYLAMINE	BDL	10	ug/L
N-NITROSO-DI-N-PROPYLAMINE	BDL	10	ug/L
PHENANTHRENE	BDL	10	ug/L
2-PICOLINE	BDL	50	ug/L
PYRENE	BDL	10	ug/L
PYRIDINE	BDL	50	ug/L
1,2,4,5-TETRACHLOROBENZENE	BDL	10	ug/L
TOLÚENEDIAMINE	BDL	50	ug/L
1,2,4-TRICHLOROBENZENE	BDL	10	ug/L
BÉNZOIC ACID	BDL	50	ug/L
4-CHLORO-3-METHYLPHENOL	BDL	10	ug/L
2-CHLOROPHENOL	BDL	10	ug/L
2,4-DICHLOROPHENOL	BDL	10	ug/L
2,4-DIMETHYLPHENOL	BDL	10	ug/L
4,6-DINITRO-2-METHYLPHENOL	BDI	50	ug/L
2,4-DINITROPHENOL	BDL	50	ug/L
2-METHYLPHENOL	BDL	10	ug/L
4-METHYLPHENOL	BDL	10	ug/L
2-NITROPHENOL	BDL	10	ug/L
4-NITROPHENOL	BDL		ug/L
PENTACHLOROPHENOL	BDL		ug/L
PHENOL	BDL		ug/L
1 2 4 5-TETRACHIORORENZENE	BDL		ug/L
2,4,5-TRICHLOROPHENOL	BOL		ug/L ug/L
2,4,6-TRICHLOROPHENOL	BDL	10	
2,7,0-INIUNUFUENUL	DUL	10	ug/L
SURROGATE RECOVERY	manin maanaan kanabaan kanab		
JUNNUATE RECUVERT	earriimeer - olasemmi - larroich		
2 ELIADADHENAI	10		% Rec
2-FLUOROPHENOL	48		∕₀ κec

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 - all mentage performed analysis or work for the Crami-
 - b. of negligent acts lerrors or onlissions of the Clienti or
 - c. of Ollent's failure to perform its obligations under this Agreement.

Sample ID: A566291 MW-0227

Parameter	Result	Det. Limit	Units
PHENOL-D5	31	[% Rec
NITROBENZENE=D5	86		KP[
2-FLUOROBIPHENYL	69		% Rec
2.4.6-TRIBROMOPHENOL			% Rec
TERPHENYL-D14	48		% Rec

GC SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION Analyst: S. BRYAN Analysis Date: 17-SEP-01	SW846-3510C Instrument: PREP	Test: P233.1.0)
Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	990		mL
The state of the s	10		m

PCB/PESTICIDE SCAN GC:ECD SW846-8081 Analyst: T. PINCKERT Analysis Date: 21	1-SEP-01 02:04 Instrument: GC/ECD	NELAC:Y Test: 0305.1.0
Prep: GC SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION Parameter	Result	Det. Limit Units
ALPHA-BHC	BDL	0.05 ug/L
BETA-BHC	BDL	0.05 ug/L
DELTA-BHC	BDL	0.05 ug/L
GAMMA-BHC (LINDANE)	BDL	0.05 ug/L
HEPTACHLOR `	BDL	0.05 ug/L
ALDRIN	BDL	0.05 ug/L
HEPTACHLOR EPOXIDE	BDL	0.05 ug/L
ENDOSULFAN I	BDL	0.05 ug/L
DIELDRIN	BDL	0.1 ug/L
4,4'-DDE	BDL	0.1 ug/L
ENDRIN	BDL	0.1 ug/L
ENDOSULFAN II	BDL	0.1 ug/L
1,4'-DDD	BDL	0.1 ug/L
ENDOSULFAN SULFATE	BDL	0.1 ug/L
1,4'-DDT	BDL	0.1 ug/L
METHOXYCHLOR	BDL	0.5 ug/L
ENDRIN ALDEHYDE	BDL	0.1 ug/L
NDRIN KETONE	BDL	0.1 ug/L
ALPHA-CHLORDANE	BDL	0.5 ug/L
SAMMA-CHLORDANE	BDL	0.5 ug/L
TOXAPHENE	BDL	1 ug/L
PCB AROCLOR 1016	BDL	0.5 ug/L
PCB AROCLOR 1221	BDL	0.5 ug/L
PCB AROCLOR 1232	BDL	0.5 ug/L
CB AROCLOR 1242	BDL	0.5 ug/L
CB AROCLOR 1248	BDL	0.5 ug/L
CB AROCLOR 1254	BDL	1 ug/L
CB AROCLOR 1260	BDL	1 ug/L
URROGATE RECOVERY		
ECACHLOROBIPHENYL (DCB)	99.2	% Rec

A OR ICP ACID DIGES alyst: M. HALL	STION OF AQUEOUS SAMP Analysis Date: 18-SEP-0	5 A ment: PREP	Test: P130.	4.0

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HERITAGE	ENVIRONMEN	TAL	SERVICES,	LLC
		Param		
INITIAL	WEIGHT OR	VOLU	JME	
ETMAL LIE	TOUT OD VO	LIIME		7981 LAP

COBALT ICP SW846-6010B

Analyst: J. KRAMER

COBALT

Sample ID: A566291 MW-0227

JENITAGE ENVIRONMENTAL SERVICES, EEC		dilpre ib. ASSOZSI MM-OZZ		
Parameter INITIAL WEIGHT OR VOLUME FINAL WEIGHT OR VOLUME	Result 50 50	Det. Limit Units mL		
ALUMINUM ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEF Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW84	0-01 02:48 Instrument: ICP	NELAC:Y		
Parameter ALUMINUM	Result BDL	Det. Limit Units 0.050 mg/L		
ANTIMONY ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEF Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW84	-01 02:48 Instrument: ICP 6-3005A P130.4.0	NELAC:Y Test: M102,3:0		
Parameter ANTIMONY	Result BDL	Det. Limit Units 0.010 mg/L		
BARIUM ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW84		NELAC:Y Test: M104,3.0		
Parameter BARIUM	Result 0.18	Det. Limit Units 0.010 mg/L		
BERYLLIUM ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW84		NELAC:Y Test: M105.3:0		
Parameter BERYLLIUM	Result BDL	Det. Limit Units 0.0040 mg/L		
CADMIUM ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW84		NELAC:Y Test: M108.3.0		
Parameter CADMIUM	Result BDL	Det. Limit Units 0.0050 mg/L		
CALCIUM ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW84		NELAC:Y Test: M109.3.0		
Parameter CALCIUM	Result 100	Det. Limit Units 0.10 mg/L		
CHROMIUM ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW840	-01 02:48 Instrument: ICP 5-3005A P130.4.0	NELAC:Y Test: M110.3.0		
Parameter	Result	Det. Limit Units		

Instrument: ICP

BDL

Analysis Date: 19-SEP-01 02:48

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

NELAC:Y

mg/L

Test: M111.3.0

0.010

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 - a. Heritage performed analysis or work for the Chart.
 - bu of neoligent abis, errors or omissions of the Olient, or
 - of Client's failure to perform its obligations under this Agreement.

HERITAGE ENVIRONMENTAL SERVICES, LLC	S	<u>Sample ID: A566291 MW-022</u>
COPPER ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP-01 Prep: FAA OR JCP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3		
Parameter COPPER	Result BDL	Det. Limit Units 0.020 mg/L
IRON ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP-01 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3	YYBV - Y - 100 - 000000000000000000000000000	NELAC:Y Test: M115.3.0
Parameter IRON	Result 4.3	Det. Limit Units 0.025 mg/L
MAGNESIUM ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP-01 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-30		NELAC:Y Test: M118.3.0
Parameter MAGNESIUM	Result 33.	Det. Limit Units 0.10 mg/L
MANGANESE ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP-01 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-30	*** ***S** *SSO**** DOORS W. 256 **DLI (227 267 - 256 ** OF 000000 + 267 - 66.	NELAC:Y Test: M119.3.0
Parameter MANGANESE	Result 0.19	Det. Limit Units 0.010 mg/L
NICKEL ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP-01 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-30	chechenesee (1980) (1980) (1980) (1980) (1980) (1980) (1980) (1980) (1980) (1980) (1980) (1980) (1980) (1980)	NELAC:Y Test: M122.3.0
Parameter NICKEL	Result 0.010	Det. Limit Units 0.010 mg/L
POTASSIUM ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP-01 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-30		NELAC:Y Test: M126.3.0
Parameter POTASSIUM	Result 1.9	Det. Limit Units 0.10 mg/L
SILVER ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP-01 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-30	www.wasan inggasesin a siya. Barit wasaadaan gaada in nayaan haci	NCLAU, I
Parameter SILVER	Result BDL	Det. Limit Units 0.010 mg/L
SODIUM ICP SW846-6010B	02:48 Instrument: ICP	NELAC:Y Test: M131.3.0
Analyst: J. KRAMER Analysis Date: 19-SEP-D1 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-30	05A P130.4.0	
itaan utuli baa Daasa maksi hii	05A P130.4:0 Result 10.	Det. Limit Units 0.10 mg/L

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 - a. Heritage performed analysis or work for the Client.
 - b. of negligent acts, errors or omissions of the Chanti or
 - c. of Client's failure to perform its obligations under this Agreement.

VANADIUM	Parameter	Result BDL	Det. Limit Units 0.010 mg/L
			0.010 hig/L
	16-6010B ER Analysis Date: 19 ACID DIGESTION OF AQUEOUS SAMPLES	-SEP-01 02:48 Instrument: ICP SW846-3005A P130.4:0	NELAC:Y Test: M139:3.0
ZINC	Parameter	Result BDL	Det. Limit Units 0.020 mg/L
Analyst: D. DRAB	ICP SW846-6010B ENSTOTT Analysis Date: 19 ICID DIGESTION OF AQUEOUS SAMPLES	-SEP-01 16:39 Instrument: TRACE I	
ARSENIC	Parameter .	Result BDL	Det. Limit Units 0.0050 mg/L
Analyst: D. DRAB	P SW846-6010B ENSTOTT Analysis Date: 19 ACID DIGESTION OF AQUEOUS SAMPLES	-SEP-01 16:39 Instrument: TRACE I sw846-3005A P130.4.0	NELAC:Y CP Test: M116.0.0
LEAD	Parameter	Result BDL	Det. Limit Units 0.0050 mg/L
Analyst: D. DRABI	E ICP SW846-6010B INSTOTT Analysis Date: 19 ICID DIGESTION OF AQUEOUS SAMPLES:	-SEP-01 16:39 Instrument: TRACE il	NELAC:Y CP Test: M128.0.0
SELENIUM	Parameter ·	Result BDL	Det. Limit Units 0.0050 mg/L
Analyst: D. DRAB	E ICP SW846-6010B INSTOTT Analysis Date: 19 ICID DIGESTION OF AQUEOUS SAMPLES S	SEP-01 16:39 Instrument: TRACE I	NELAC:Y CP Test: M134.0.0
THALLIUM	Parameter	Result BDL	Det. Limit Units 0.010 mg/L
1ERCURY CVAA Analyst: J. O'BRY	ACID DIGESTION OF AQUEOU AN Analysis Date: 17	S SAMPLES SW846-7470A SEP-01 12:30 Instrument: PREP	Test: P131.6.0
INITIAL WEIGH	Parameter T OR VOLUME	Result 40 40	Det. Limit Units mL mL
0000000000	SW846-7470A An Analysis Date: 18 ACID DIGESTION OF AQUEOUS SAMPLES	1 Anna Charles (1) 1 No. 4000000000000000000000000000000000000	NELAC:Y Test: M120.1.0
1ERCURY	Parameter	Result BDL	Det. Limit Units 0.00020 mg/L
YANIDE DISTI Analyst: T. DRIGG	LLATION SW846-9010A ERS Analysis Date: 23-	SEP-01 13:00 Instrument: PREP	Test: P101.4:0
INITIAL WEICH	Parameter T OR VOLUME	Result 250	Det. Limit Units mL

FINAL VOLUME	250	mL
CYANIDE, TOTAL (AUTOMATED) SW846-9012 Analyst: B. FOX Analysis Date: 24-SEP-01 08:45	Instrument: AUTO-ANALYZER	NELAC:Y Test: G101.4.0
Prep: CYANIDE DISTILLATION SW846-9010A P101.4.0		
		•

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Sample ID: A566291 MW-0227

Parameter	Result	Det. Limit	Units
CYANIDE	BDL	0.005	mg/L

Sample Comments

Sample was received within 6 hours of sampling.

BDL Below Detection Limit

Sample was received on ice at temperature 6.8 C. All aqueous samples are reported on a wet weight basis unless otherwise noted. Sample chain of custody number 106227.

This Certificate shall not be reproduced, except in full, without the written approval of the lab.

The sample results relate only to the analytes of interest tested or to the sample as received by the lab.

Heritage Environmental Services, LLC certifies that the test results indicated as NELAC (National Environmental Laboratory Accreditation Conference) accredited (Yes for NELAC) meet all requirements of NELAC and Illinois EPA Part 186 unless otherwise explained or justified as to the the exact nature of the deviations.

Heritage Environmental Services, LLC is accredited under Illinois NELAC accreditation number 100401.

Arizona License Number AZ0627.

pproved: P. Conice Of

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CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, LLC	13-SEP-01		A566287
COMMERCIAL LABORATORY OPERATIONS	Complete	PO No	umber
7901 W. MORRIS ST.	25-SEP-01	DP 00151	
INDIANAPOLIS, IN 46231	Printed	Samp	led
(317)243-8304	25-SEP-01	13-SEP-01	10:50

Report To

Bill To

DAN SAMMONS, MFWTP IND. WASTE LABORATORY ACCOUNTS PAYABLE LOUISVILLE AND JEFFERSON COUNTY M.S.D. LOUISVILLE & JEFFERSON COUNTY M.S.D. P.O. BOX 740011 LOUISVILLE, KY 40201

PO BOX 740011 LOUISVILLE, KY 40201

Sample Description

CLIENT ID: MW-0427

MATRIX TYPE: NON-SPECIFIC WATER

WELL NUMBER: MW-0427 Submitter Code :4217

VOLATILE ORGANICS SW846-8240B Analyst: H. WILLIAMS Analysis Date: 19-SEP-01 07:57	Instrument: GC/MS VOA	Test: 0510	NELAC:N
Parameter	Result	Det. Limit	Units
ACETONE	BDL	20	ug/L
ACROLEIN	BDL	50	ug/L
ACRYLONITRILE	BDL	70	ug/L
BENZENE	BDL	5.0	ugʻ/L
BROMODICHLOROMETHANE	BDL	5.0	ug/L
BROMOFORM	BDL		ug/L
BROMOMETHANE	BDL	10	ug/L
CARBON DISULFIDE	BDL	5.0	ug/L
CARBON TETRACHLORIDE	BDL	5.0	ug/L
CHLOROBENZENE	BDL	5.0	ug/L
CHLOROETHANE	BDL	10	ug/L
CHLOROFORM	BDL	5.0	
CHLOROMETHANE	BDL	10	ug/L
DIBROMOCHLOROMETHANE	BDL	5.0	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5.0	ug/L
DICHLORODIFLUOROMETHANE	BDL	5.0	ug/L
1,1-DICHLOROETHANE	BDL	5.0	ug/L
1,2-DICHLOROETHANE	BDL	5.0	ug/L
1,1-DICHLOROETHENE	BDL	5.0	ug/L
1,2-DICHLOROPROPANE	BDL	5.0	ug/L
ETHYLBENZENE	BDL	5.0	ug/L
FLUOROTRICHLOROMETHANE	TOBOLE ALACH WY A FALLA	5.0	ug/L
2-HEXANONE	BDL	10	ug/L
METHYLENE CHLORIDE WAS A SECOND OF THE SECON	BDLA WARE WAS TWO WAS	5.0	ug/L
METHYL ETHYL KETONE	BDL	10	ug/L
4-METHYL-2-PENTANONE	- BDL Start of Artist Artist	10	ug/L
STYRENE	BDL	5.0	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5.0	ug/L

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 - b. of nealigent acts, errors or omissions of the Client, or
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Sample ID: A566287 MW-0427

Parameter	Result	Det. Limit	Units
TETRACHLOROETHENE	BDL	5.0	ug/L
TETRAHYDROFURAN	BDL	25	ug/L
TOLUENE	BDL	5.0	ug/L
1,2-DICHLOROETHENE (TOTAL)	BDL	5.0	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5.0	ug/L
1,1,1-TRICHLOROETHANE	BDL	5.0	ug/L
1,1,2-TRICHLOROETHANE	BDL	5.0	ug/L
TRICHLOROETHENE	BDL	5.0	ug/L
VINYL ACETATE	BDL	10	ug/L
VINYL CHLORIDE	BDL	_10	ug/L
XYLENE (TOTAL)	BDL	5.0	ug/L
SURROGATE RECOVERY			
DICHLOROETHANE-D4	99		% Rec
TOLUENE-D8	108		% Rec
BROMOFLUOROBENZENE	95		% Rec
Prep Method SW846-5030B Purge and Trap			

GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRAC Analysis Date: 18-SEP-01		Test: P233.4.	0
Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1000	-	mL .
FINAL VOLUME	1.0		mL

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	10	ug/L
ACENAPHTHYLENE	BDL	10	ug/L
ANTHRACENE	BDL	10	ug/L
BENZ(A)ANTHRACENE	BDL	10	ug/L
BENZÒ(Á)PYRENE	BDL	10	ug/L
BENZO(B)FLUORANTHENE	BDL	10	ug/L
BENZO(G,H,I)PERYLENE	BDL	10	ug/L
BENZO(K) FLUORANTHENE	BDL	10	ug/L
BENZYL ALCOHOL	BDL	10	ug/L
BENZYLBUTYLPHTHALATE	BDL	10	ug/L
BIS(2-CHLOROETHOXY)METHANE	BDL	10	ug/L
IS(2-CHLOROETHYL)ETHER	BDL	10	ug/L
SIS(2-CHLOROISOPRÓPYL)ETHER	BDL	10	ug/L
IS(2-ETHYLHEXYL)PHTHÁLATE	The state of the state of the same of the	10	ug/L
-BROMOPHENYLPHENYLETHER	BDL	10	ug/L
ARBAZOLE	Andrew in the Alan BÖLANDAR A CARANTAR A	10	ug/L
-CHLOROANILINE	BDL	10	ug/L
-CHLORONAPHTHALENE	BDL - A STATE OF BOLD	10	ug/L
-CHLOROPHENYLPHENYLETHER	BDL	10	ug/L
HRYSENE	BDL	10	
IBENZ(A, H) ANTHRACENE	BDL	10	ug/L
IBENZÔFÚRÁN	BDL	10	ug/L
I,2-DICHLOROBENZENE	BDL	10	uq/L

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 - o. of Client's failure to perform its obligations under this Agreement.

MERITAGE ENVIRONMENTAL SERVICES, LLC		E 10: M3002	
Parameter	Result	Det. Limit	Units
1,3-DICHLOROBENZENE	BDL	10	ug/L
1,4-DICHLOROBENZENE	BDL	10	ug/L
3,3'-DICHLOROBENZIDINE	BDL	20	ug/L
DIETHYLPHTHALATE	BDL	10	ug/L
DIMETHYLPHTHALATE	BDL	10	ug/L
DI=N-BUTYLPHTHALATE	BDL	10	ug/L
DINITROBENZENES	BDL	50	ug/L
2,4-DINITROTOLUENE	BDL	10	ug/L
2,6-DINITROTOLUENE	BDL	10	ug/L
DI N-OCTYLPHTHALATE	BDL	10	ug/L
FLUORANTHENE	BDL	10	ug/L
FLUORENE	BDL	10	ug/L
HEXACHLOROBENZENE	BDL	10	ug/L
HEXACHLOROBUTADIENE	BDL	10	ug/L
HEXACHLOROCYCLOPENTADIENE	BDL	10	
HEXACHLOROETHANE	BDL	10	ug/L
	BDL		ug/L
INDENO(1,2,3-CD)PYRENE	BDL	10 10	ug/L
ISOPHORONE			ug/L
2-METHYLNAPHTHALENE	BDL	10	ug/L
NAPHTHALENE	BDL	10	ug/L
2-NITROANILINE	BDL	50	ug/L
3-NITROANILINE	BDL	50	ug/L
4-NITROANILINE	BDL	50	ug/L
NITROBENZENE	BDL	10	ug/L
N-NITROSO-DIPHENYLAMINE	BDL	10	ug/L
N-NITROSO-DI-N-PROPYLAMINE	BDL		ug/L
PHENANTHRENE	BDL	10	ug/L
2-PICOLINE	BDL	50	ug/L
PYRENE	BDL	10	ug/L
PYRIDINE	BDL	50	ug/L
1,2,4,5-TETRACHLOROBENZENE	BDL	10	ug/L
TOLUENEDIAMINE	BDL	50	ug/L
1,2,4-TRICHLOROBENZENE	BDL	10	ug/L
BENZOIC ACID	BDL	50	ug/L
4-CHLORO-3-METHYLPHENOL	BDL	10	ug/L
2-CHLOROPHENOL	BDL	10	ug/L
2,4-DICHLOROPHENOL	BDL	10	ug/L
2,4-DIMETHYLPHENOL	BDL	10	ug/L
4,6-DINITRO-2-METHYLPHENOL	BDL	50	ug/L
2,4-DINITROPHENOL	BDL	50	ug/L
2-METHYLPHENOL	BDL	10	ug/L
4-METHYLPHENOL		10	ug/L
2-NITROPHENOL	BDL	10	ug/L
4-NITROPHENOL		50	ug/L
PENTACHLOROPHENOL	BDL	50	ug/L
PHENOL	BDL	10	ug/L
1.2.4.5-TETRACHLOROBENZENE	Í BDL Í	10	ug/L
2,4,5-TRICHLOROPHENOL		50	ug/L
2,4,6-TRICHLOROPHENOL	BDL	10	ug/L
SURROGATE RECOVERY			
2-FLUOROPHENOL	51		% Rec
			

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Sample ID: A566287 MW-0427

Parameter	Result	Det. Limit	Units
PHENOL-D5	41	İ	% Rec
			% Rec
2-FLUOROBIPHENYL	75	ĺ	% Rec
1.2.4.6.KIBKUMUPHENUE	78		% Rec
TERPHENYL-D14	45		% Rec

GC SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION Analyst: S. BRYAN Analysis Date: 17-SEP-01	SW846-3510C Instrument: PREP	Test: P2 3 3,1.0)
Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1000		mL
FINAL VOLUME			mL

PCB/PESTICIDE SCAN GC:ECD SW846-8081 Analysis Date: 20-SEP-01 21:0	09 Instrument: GC/ECD	Test: 0305.	NELAC:Y
Prep: GC SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-35100			
Parameter	Result	Det. Limit	Units
ALPHA-BHC	BDL		ug/L
BETA-BHC	BDL		ug/L
DELTA-BHC	BDL		ug/L
GAMMA-BHC (LINDANE)	BDL		ug/L
HEPTACHLOR	BDL		ug/L
ALDRIN	BDL		ug/L
HEPTACHLOR EPOXIDE	BDL		ug/L
ENDOSULFAN I	BDL		ug/L
DIELDRIN	BDL		ug/L
4,4'-DDE	BDL		ug/L
ENDRIN	BDL		ug/L
ENDOSULFAN II	BDL		ug/L
4,4′-DDD	BDL		ug/L
ENDOSULFAN SULFATE	BDL	0.1	ug/L
4,4'-DDT	BDL	0.1	ug/L
METHOXYCHLOR	BDL	0.5	ug/L
ENDRIN ALDEHYDE	BDL	0.1	ug/L
ENDRIN KETONE	BDL	0.1	ug/L
ALPHA-CHLORDANE	BDL		ug/L
GAMMA-CHLORDANE	BDL		ug/L
TOXAPHENE	BDL		ug/L
PCB_AROCLOR 1016	BDL		ug/L
PCB AROCLOR 1221	BDL		ug/L
PCB AROCLOR 1232	BDL		ug/L
PCB AROCLOR 1242	BDL		ug/L
PCB AROCLOR 1248	BDL		ug/L
PCB AROCLOR 1254	BDL		ug/L
PCB AROCLOR 1260	BDL		ug/L
SURROGATE RECOVERY			
DECACHLOROB PHENYL (DCB)	73.4		% Rec

FAA OR ICP ACID DIGESTION OF Analyst: M. HALL Analys	s in defluición de la completa de respector de la completa de la completa de la completa de la completa de la c	:: P130.4.0

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Sample ID: A566287 MW-0427

_		ample 10: 450020/ MM-042/
Parameter INITIAL WEIGHT OR VOLUME	Result 50 50	Det. Limit Units mL
FINAL WEIGHT OR VOLUME		mL
ALUMINUM ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW840	-01 02:15 Instrument: ICP 6-3005A P130:4.0	NELAC:Y Test: M101.3.0
Parameter	Result	Det. Limit Units
ALUMINUM	BDL	0.050 mg/L
ANTIMONY ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846 Parameter	-01 02:15 Instrument: ICP 5-3005A P130:4:0 Result	NELAC:Y Test: M102.3.0 Det. Limit Units
ANTIMONY	BDL	0.010 mg/L
BARIUM ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846 Parameter BARIUM	-01 02:15 Instrument: ICP 5-3005A P130:4:0 Result 0.12	NELAC:Y Test: M104:3:0 Det. Limit Units 0.010 mg/L
BERYLLIUM ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP- Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846	5-3005A P130.4.0	
Parameter BERYLLIUM	Result BDL	Det. Limit Units 0.0040 mg/L
CADMIUM ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP-	01 03 15	* NELAUITA C
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846	3-3005A P130.4.0	
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846	-3005A P130.4.0	
Prep; FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846 Parameter	-3005A P130.4.0 Result	Det. Limit Units
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846	-3005A P130.4.0	
Prep; FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846 Parameter	Result BDL BDL 100 02:15 Instrument: ICP	Det. Limit Units 0.0050 mg/L NELAC:Y
Prep; FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846 Parameter CADMIUM CALCIUM ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP	Result BDL BDL 100 02:15 Instrument: ICP	Det. Limit Units 0.0050 mg/L NELAC:Y
Parameter CADMIUM CALCIUM ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP- Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846 Parameter CALCIUM CHROMIUM ICP SW846-6010B	Result BDL O1 02:15 Instrument: ICP -3005A P130:4.0 Result 120 Result 120	Det. Limit Units 0.0050 mg/L NELAC:Y Test:: M109,3.0
Parameter CADMIUM CALCIUM ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP- Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846 Parameter CALCIUM CHROMIUM ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP-	Result BDL O1 02:15 Instrument: ICP -3005A P130:4.0 Result 120 Result 120	Det. Limit Units mq/L NELAC:Y Test: M109,3.0 Det. Limit Units mg/L NELAC:Y
Prep; FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846 Parameter CADMIUM CALCIUM ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP-Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846 Parameter CALCIUM CHROMIUM ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP-Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846 Parameter CHROMIUM COBALT ICP SW846-6010B	Result BDL O1 02:15 Instrument: ICP -3005A P130:4:0 Result 120 O1 02:15 Instrument: ICP -3005A P130:4:0 Result BDL O1 02:15 Instrument: ICP	Det. Limit Units 0.0050 mg/L NELAC:Y Test: M109,3.0 Det. Limit Units 0.10 mg/L NELAC:Y Test: M110.3.0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846 Parameter CADMIUM CALCIUM ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP-Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846 Parameter CALCIUM CHROMIUM ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP-Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846 Parameter CHROMIUM COBALT ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP-	Result BDL O1 02:15 Instrument: ICP -3005A P130:4:0 Result 120 O1 02:15 Instrument: ICP -3005A P130:4:0 Result BDL O1 02:15 Instrument: ICP	Det. Limit Units mg/L NELAC: Y Test: M109,3.0 Det. Limit Units mg/L NELAC: Y Test: M110.3:0 Det. Limit Units mg/L NELAC: Y Test: M110.3:0

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ERITAGE ENVIRONMENTAL SERVICES, LLC	LOCAL YOU DOCKSOOD AND SHE WITH APPENDICULATION OF THE WAY	Sample ID: A 566287 MW -042
COPPER ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP-01 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3	02:15 Instrument: ICP 005A P130:4.0	NELAC:Y Test: M112:3.0
Parameter COPPER	Result BDL	Det. Limit Units 0.020 mg/L
IRON ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP-01 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3		NELAC:Y Test: Mj15.3.0
Parameter IRON	Result 6.2	Det. Limit Units 0.025 mg/L
MAGNESIUM ICP SW845-6010B Analyst: J. KRAMER Analysis Date: 19-SEP-01 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3	02:15 Instrument: ICP	NELAC:Y Test: M118.3.0
Parameter MAGNESIUM	Result 40.	Det. Limit Units 0.10 mg/L
MANGANESE ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP-01 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3		NELAC:Y Test: M119.3.0
Parameter MANGANESE	Result 0.14	Det. Limit Units
NICKEL ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP-01 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3		NELAC:Y Test: M122.3.0
Parameter NICKEL	Result 0.011	Det. Limit Units 0.010 mg/L
POTASSIUM ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP-01 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-30	02:15 Instrument: ICP 005A P130:4:0	NELAC:Y Test: M126.3.0
Parameter POTASSIUM	Result 3.0	Det. Limit Units 0.10 mg/L
SILVER ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP-01 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-30	02:15 Instrument: ICP 005A P130.4.0	NELAC:Y Test: M130.3.0
Parameter SILVER	Result BDL	Det. Limit Units 0.010 mg/L
SODIUM ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP-01 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-30		NELAC:Y Test: M131.3.0
Parameter	Result 29.	Det. Limit Units 0.10 mg/L
SODIUM		

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l BDL	0.010 mg/L
1 02:15 Instrument: CP	NELAC:Y
Result BDL	Det. Limit Units 0.020 mg/L
l 15:56 Instrument: TRACE ICE	NELAC:Y Test: M103.0.0
Result 0.011	Det. Limit Units 0.0050 mg/L
	NELAC:Ÿ Test: M116.0.0
Result 0.0068	Det. Limit Units 0.0050 mg/L
15:56 Instrument: TRACE ICP	NELAU: Y
Result BDL	Det. Limit Units 0.0050 mg/L
ten inggrupping kilong la lag aktiviteten par kantang pertangan berang berang berang berang berang berang bera	NELAC:Y Test: M134.0.0
Result BDL	Det. Limit Units 0.010 mg/L
PLES SW846-7470A 12:30 Instrument: PREP	Test: P131.6.0
Result 40 40	Det. Limit Units mL mL
 John Joseph J. G. (1995) Annual Study Communication (Inc.) 1987 (1997) 	NELAC:Y Test: M120.1.0
Result BDL	Det. Limit Units 0.00020 mg/L
	BDL 15:56 Instrument: TRACE ICE 10:005A P130.4.0 Result 0.005A P130.4.0 Result 0.0068

250

Instrument: AUTO-ANALYZER

· Page

INITIAL WEIGHT OR VOLUME

CYANIDE, TOTAL (AUTOMATED) SW846-9012
Analyst: B. FOX Analysis Date: 24-SEP-01 08:45

Prep: CYANIDE DISTILLATION SW846-9010A P101.4.0

FINAL VOLUME

	•

NELAC:Y

Test: G101.4.0

7 (continued on next page)

- 1. <u>Agreement-</u> To initiate services. Client must sign the Heritage Laboratory Services Quotation form and submit a written purchase order. Submittal of a purchase order and/or samples constitutes acceptance and acknowledgment by Client to be bound by this Agreement.
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 - b. of neoligent acts, errors or omissions of the Olient, or
 - 6. of Client's failure to perform its obligations under this Agreement.

Sample ID: A566287 MW-0427

Parameter	Result	Det. Limit	Units
CYANIDE	BDL	0.005	mg/L

Sample Comments

BDL Below Detection Limit

Sample was received on ice at temperature 6.8 C. All aqueous samples are reported on a wet weight basis unless otherwise noted. Sample chain of custody number 106227.

This Certificate shall not be reproduced, except in full, without the written approval of the lab. The sample results relate only to the analytes of interest tested or to the sample as received by the lab. Heritage Environmental Services, LLC certifies that the test results indicated as NELAC (National Environmental Laboratory Accreditation Conference) accredited (Yes for NELAC) meet all requirements of NELAC and Illinois EPA Part 186 unless otherwise explained or justified as to the the exact nature of the deviations. Heritage Environmental Services, LLC is accredited under Illinois NELAC accreditation number 100401. Arizona License Number AZ0627.

Approved: Pr Sence 0A0

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CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, LLC	13-SEP-01		A566288
COMMERCIAL LABORATORY OPERATIONS	Complete	PO N	umber
7901 W. MORRIS ST.	25-SEP-01	DP 00151	
INDIANAPOLIS, IN 46231	Printed	Sampled	
(317)243-8304	25-SEP-01	13-SEP-0	1 10:50

Report To

Bill To

DAN SAMMONS, MEWTP IND. WASTE LABORATORY ACCOUNTS PAYABLE LOUISVILLE AND JEFFERSON COUNTY M.S.D. LOUISVILLE & JEFFERSON COUNTY M.S.D. P.O. BOX 740011 LOUISVILLE, KY 40201

PO BOX 740011 LOUISVILLE, KY 40201

Sample Description

CLIENT ID: DUP@MW-0427

MATRIX TYPE: NON-SPECIFIC WATER

WELL NUMBER: DUP@MW-0427 Submitter Code :4217

VOLATILE ORGANICS SW846-8240B Analyst: H. WILLIAMS. Analysis Date: 19-SEP-01 08:3	1 Instrument: GC/MS VOA	Test: 0510	NELAC:N
Analyst: H. WILLIAMS Analysis Date: 19-SEP-01 08:3 Parameter	Result	Det. Limit	Units
ACETONE	BDL	20	ug/L
ACROLEIN	BDL	50	ug/L
ACRYLONITRILE	BDL	70	ug/L
BENZENE	BDL	5.0	ug/L
BROMODICHLOROMETHANE	BDL	5.0	ug/L
BROMOFORM	BDL	5.0	ug/L
BROMOMETHANE	BDL	10	ug/L
CARBON DISULFIDE	BDL	5.0	ug/L
CARBON TETRACHLORIDE	BDL	5.0	ug/L
CHLOROBENZENE	BDL		ug/L
CHLOROETHANE	BDL	_10	ug/L
CHLOROFORM	BDL	5.0	ug/L
CHLOROMETHANE	BDL	10	ug/L
DIBROMOCHLOROMETHANE	BDL	5.0	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5.0	ug/L
DICHLORODIFLUOROMETHANE	BDL		ug/L
1,1-DICHLOROETHANE	BDL	5.0	ug/L
1,2-DICHLOROETHANE	BDL	5.0	ug/L
1,1-DICHLOROETHENE	BDL Sabota	5.0	ug/L
1,2-DICHLOROPROPANE ETHYLBENZENE	BDL	5.0 5.0	ug/L
FLUOROTRICHLOROMETHANE	BDL	5.0	ug/L
2-HEXANONE	BDL	10	ug/L
METHYLENE CHLORIDE	BDL	5.0	ug/L ug/L
METHYL ETHYL KETONE	BDL	10	ug/L
4-METHYL-2-PENTANONE	BDL	10	ug/L
STYRENE	BDL	5.0	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5.0	ug/L

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 - b. of negligent acts, errors or omissions of the Client; or
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ITAGE ENVIRONMENTAL SERVICES, LLC	Result	5 n luq	Units /L
Parameter	BDL	25 ug	i/L
TRACHLOROETHENE	BDL	5.0 \ ug]/L
TRAHYDROFURAN	BDL		3/L
LUENE TOTAL	BDL		3/L
2-DICHLOROETHENE (TOTAL)	BDL BDL		g/L
	re ways end -	3.0 1.9	g/L
######################################	BDL BDL		g/L
1.2-TRICHLURUE UIDINE	BDL		g/L
RICHLOROETHENE		TOTAL CONTRACT THE TOTAL CONTRACT OF THE CONTR	g/L
INYL ACETATE	BDL	5.0 u	ıg/L
ANAMMEHEOKADE **** ***** ***	1 Table 1 Tabl		emediah II P
YLENE (TOTAL)		manan vining ()	
TOO ATT DECOVERY		0	% Rec
SURROGATE RECOVERY	124		% Rec
OUL ODOCTHANE -D4	$\hat{1}$ 22		% Rec
DICHLOROETHANE-D4 TOLUENE-D8	106		16 NCC

Prep Method Swo40-30305			
GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRA	ACTION SW846-3510C	Test: P233.4.0)
GC/MS SEPARATORY FUNNEL LIQUID-LIQUID LATER Analysis Date: 18-SEP-01	Instrument: PREP	Det. Limit	Units
Analyst: V. BROWN	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		mL
Parameter			
I INITIAL WEIGHT ON VOLUME			NEL ACAV
Language State Control M. L. Serence Williams and C. State Control Con		2.	NELAC:Y

Parameter OP VOLUME	1000	mL	388933
NITIAL WEIGHT OR VOLUME INAL VOLUME	30 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	OC NEL/ SVOA Test; 0505.3.0	AC:Y
INAL VOLUME EMI-VOLATILE ORGANICS (BASE/NEUTRAL/ Analysis Date: 21 Analysis L. CALLAHAN Analysis Date: 21 EEP: GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACT	-SEP-01 18:49 Instrument: GL/ms. ION SW846-3510C P233.4.0	Det. Limit Ur	Inits
PANTOLICATION OF THE PARTOLIC PROPERTY OF THE		10 [
Parameter	BUL	10 ug/	
CENAPHTHENE CENAPHTHYLENE	BDL BDL	10 ug/ 10 ug/	/L
NTUDACENE	BDL	10 ug/	<u>/L</u>
EN7 (A) ANTHRACENC	BDL	10 ug/	/L
-NTA/AIDVUENE	BDL	10 ug/	/L
CN70/DIFFUURANTDLIV	BDL	10 ug,	/L
	BDL	10 ug,	J/L
SENTO (K) FLUUKANI III III III III III III III III III	BDL		J/L
BENZYL ALCOHOL	BDL		ý/L
	BDL		g/L
	BDE ATTEMPT		g/L
	BDL		g/L
	a ja kaaled (1 BD E sa di iii ii ii ii		g/L
BIS(2-ETHYLHEXYL)PHTHALATE BIS(2-ETHYLHEXYL)PHTHALATE	Ing	1	
* DUUMUDHENII PUEHILLEICE	BDL		ig/L
CARBAZOLE	BDL	iou	
	BDL		ig/L
- ALLI ADAMADH LHAL PINE	BDL		ιg/L
4-CHLOROPHENYLPHENYLETHER	Z. S.		ug/L
COUNTRYCENE	BDL	10 0	
CHRYSENE DIBENZ(A,H)ANTHRACENE	BDL		ug/1
DIBENZOFURAN DIBENZOFURAN	BDL		19/
DIBENZOFURAN 1,2-DICHLOROBENZENE	DUL		
1,2-DICHLUKUBLIKELILE			

LABORATORY SERVICES TERMS & CONDITIONS

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- THE SERVICES, LLC		Det. Limit Units
ITAGE ENVIRONMENTAL SERVICES, LLC	Result BDL	10 \ ug/L
	BDL	10 ug/L
3-DICHLOROBENZENE		20 ug/Ł
	BDL	10 ug/L
3/_DICHLOROBENZIDINE	BDL	10 ug/L
CTUVEDHI HALATE	BDL	10 ug/L
FARTINI DU 1901 A 1 F	BDL	50 ug/L
I-N-BUTYLPHTHALATE	BDL	10 ug/L
	BDL	Access to A. A. Alberton Control of the Control of
	BDL	
MANATARINIO DENEMANDA MARIA		10 ug/L
C DINITION OF THE CONTROL OF THE CON	BDL	10 ug/L
1-N-OCTYLPHTHALATE	BDL	10 ug/L
LUORANTHENE	BDL	10 ug/L
LUCKANTIE	BDL	10 ug/L
LUORENE	BDL	
HEXACHLOROBENZENE	BDL	10 ug/L
		10 ug/L
PEAVULUM OKOCACTOL CIMILADA PRIMA PR	BDL	10 ug/L
MENTACH ODOL THANK	BDL	10 ug/L
INDENO(1,2,3-CD)PYRENE	BDL	10 ug/L
INDERO(1, 4, 7)	BDL	10 ug/L
ISOPHORONE	BDL	The state of the s
2-METHYLNAPHTHALENE		
MADHTHALENE	BDL	50 ug/L
2-NITROANILINE	BDL	50 ug/L
3-NITROANILINE	BDL	10 ug/L
4-NITROANILINE	BDL	10 ug/L
	BDL	10 ug/L
NITROBENZENE NITROBENZENE NITROBENZENE NITROBENZENE	BDL	
NITROBENZENE N-NITROSO-DIPHENYLAMINE		10 ug/L
ENTATROSO DI FILIRIO DE CAMBRILLA DE CAMBRIL	BDL	50 ug/L
PHENANTHRENE	BDL	10 ug/L
2-PICOLINE	BDL	50 ug/L
PYRENE	BDL	10 ug/L
	BDL	50 ug/l
PYRIDINE DROBENZENE	BOL	The state of the s
PYRIDINE 1,2,4,5-TETRACHLOROBENZENE 1,2,4,5-TETRACHLOROBENZENE	BDL	10 ug/l
		50 ug/l
1 2 4-TRICHLURUBENZENL	BDL	10 \ ug/
	BDL	10 ug/
BENZOIC ACID 4-CHLORO-3-METHYLPHENOL	BDL	10 ug/
a CHICOROPHENO!	BDL	10 ug/
2-CHLOROPHENOL	BDL	Secretarization (Victor) Additional Secretarization (Victor)
2,4-DICHLOROPHENOL	BDL	Land the Art Artificial
2,4-DIMETHYLPHENOL		50 ug/
- I DINTTUN-V-ME (N) LETTENCE	BDL	10 ug/
2 A DINI RUPHENUL	BDL	10 ug/
I A METHYL PHENOL	BDL	10 ug,
4-METHYLPHENOL	BDL	50 ug
公子門では日子に下口に行びた	BDL	e to AMP a company to the control of the Company of
2-NITROPHENOL		50 ug
N.NITROPHENOL	BDL	10 ug
PENTACHLUKUPHCHUL	BDL	10 ug
 A. Alleria, etc. Phillips of the Communication of the Commu	BDL	50 ug
	BDL	10 ug
1,2,4,5-TETRACHLOROBERZERE 2,4,5-TRICHLOROPHENOL	BDL	
2,4,0-TRICHLOROPHENOI		
2,4,5-TRICHLOROPHENOL		and a survivous
Provide the first the first the first that the first the	The second of the	
SURROGATE RECOVERY		% % And A whome are a
	. 50	1

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Sample ID: A566288 DUP@MW-0427

Parameter	Result	Det.	Limit	Units
PHENOL-D5	43			% Rec
NITROBENZENE-D5				% Rec
2-FLUOROBIPHENYL	76			% Rec
2.4.6-TRIBROMOPHENOL	01:			% Rec
TERPHENYL-D14	58			% Rec

GC SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION Analyst: S. BRYAN Analysis Date: 17-SEP-01	SW846-3510C Instrument: PREP	Test: P233.1.0	0
Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	950		mL
FINAL VOLUME	10		mL

PCB/PESTICIDE SCAN GC: ECD SW846-8081 Analyst: T. PINCKERT Analysis Date: 20-SEP-01 23:0	O Instrument: GC/ECD	Test: 030	NELAC:Y		
Prep: GC SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C P233.1.0					
Parameter	Result	Det. Limit	Units		
ALPHA-BHC	BDL	0.05	ug/L		
BETA-BHC	BDL	0.05	ug/L		
DELTA-BHC	BDL	0.05	ug/L		
GAMMA-BHC (LINDANE)	BDL	0.05	ug/L		
HEPTACHLOR	BDL	0.05	ug/L		
ALDRIN	BDL	0.05	ug/L		
HEPTACHLOR EPOXIDE	BDL	0.05	ug/L		
ENDOSULFAN I	BDL	0.05	ug/L		
DIELDRIN	BDL	0.1	ug/L		
4, 4' - DDE	BDL	0.1	ug/L		
ENDRIN	BDL	0.1	ug/L		
ENDOSULFAN II	BDL	0.1	ug/L		
4,4'-DDD	BDL	0.1	ug/L		
ENDOSULFAN SULFATE	BDL	0.1	ug/L		
4,4'-DDT	BDL	0.1	ug/L		
METHOXYCHLOR	BDL BDL	0.5	ug/L		
ENDRIN ALDEHYDE	BDL	0.1 0.1	ug/L		
ENDRIN KETONE	BDL		ug/L		
ALPHA-CHLORDANE GAMMA-CHLORDANE	BDL	0.5 0.5	ug/L		
TOXAPHENE	BDL		ug/L		
PCB_AROCLOR_1016	BDL	0.5	ug/L ug/L		
PCB AROCLOR 1221	BDL	0.5	ug/L ug/L		
PCB AROCLOR 1232	BDL	0.5	ug/L ug/L		
PCB AROCLOR 1242	BDL	0.5	ug/L		
PCB AROCLOR 1248		0.5	ug/L		
PCB AROCLOR 1254	BDL	0 3 1	ug/L		
PCB AROCLOR 1260	BDL	u i	ug/L		
SURROGATE RECOVERY					
DECACHLOROBIPHENYL (DCB)	92.0		% Rec		

FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES S Analyst: M. HALL Analysis Date: 18-SEP-01 10:0	CONTINUE NO ANTONIO DE COMO TERES DE CONTRA LA CONTRA DE CONTRA LA CONTRA LA CONTRA DE ENTRA DE CONTRA DE

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 - b. of negligent acts, errors or omissions of the Client; or
 - cool Client's failure to perform its obligations under this Agreement.

Sample ID: A566288 DUP@MW-0427

Parameter		
INITIAL WEIGHT OR VOLUME	Result 50	Det. Limit Units mL
FINAL WEIGHT OR VOLUME	50	mL.
ALUMINUM ICP SW846-6010B Analyst: J. KRAMER Analysis D. Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SA	ate: 19-SEP-01 02:38 Instrument: ICP AMPLES SW846-3005A P130.4.0	NELAC:Y Test: M101.3:0
Parameter ALUMINUM	Result BDL	Det. Limit Units 0.050 mg/L
ALONINON) DDL	0.030 IIIg/ L
ANTIMONY ICP SW846-6010B Analyst: J. KRAMER Analysis De Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SA	ate: 19-SEP-01 02:38	NELAC;Y Test: M102.3.0
Parameter ANTIMONY	Result BDL	Det. Limit Units 0.010 mg/L
BARIUM ICP SW846-6010B Analyst: J. KRAMER Analysis De Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SA	ate: 19-SEP-01 02:38 Instrument: ICP AMPLES SW846-3005A P130.4.0	NELAC:Y Test: M104.3.0
Parameter BARIUM	Result 0.12	Det. Limit Units 0.010 mg/L
BERYLLIUM ICP SW846-6010B Analyst: J. KRAMER Analysis De Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SA	ate: 19-SEP-01 02:38 Instrument: ICP AMPLES SW846-3005A P130.4:0	NELAC:Y Test: M105.3.0
Parameter BERYLLIUM	Result BDL	Det. Limit Units 0.0040 mg/L
BERYLLIUM CADMIUM ICP SW846-6010B Analysis Da	BDL ate: 19-SEP-01 02:38 Instrument: ICP	0.0040 mg/L NELAC:Y
BERYLLIUM CADMIUM ICP SW846-6010B Analyst: J. KRAMER Analysis Da Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SA Parameter	BDL ate: 19-SEP-01 02:38 Instrument: ICP	0.0040 mg/L NELAC:Y
BERYLLIUM CADMIUM ICP SW846-6010B Analyst: J. KRAMER Analysis Da Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SA Parameter CADMIUM CALCIUM ICP SW846-6010B Analyst: J. KRAMER Analysis Da	BDL ate: 19-SEP-01 02:38	0.0040 mg/L NELAC:Y Test: M108.3.0 Det. Limit Units
BERYLLIUM CADMIUM ICP SW846-6010B Analyst: J. KRAMER Analysis Da Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SA Parameter CADMIUM CALCIUM ICP SW846-6010B Analyst: J. KRAMER Analysis Da Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SA Parameter	BDL ate: 19-SEP-01 02:38	0.0040 mg/L NELAC:Y Test: M108.3.0 Det. Limit Units mg/L NELAC:Y
CADMIUM ICP SW846-6010B Analyst: J. KRAMER Analysis Da Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SA Parameter CADMIUM CALCIUM ICP SW846-6010B Analyst: J. KRAMER Analysis Da Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SA Parameter CALCIUM CHROMIUM ICP SW846-6010B Analyst: J. KRAMER Analysis Da	BDL ate: 19-SEP-01 02:38	0.0040 mg/L NELAC:Y Test: M108.3.0 Det. Limit Units 0.0050 mg/L NELAC:Y Test: M109.3.0 Det. Limit Units 0.10 mg/L NELAC:Y NELAC:Y NELAC:Y
CADMIUM ICP SW846-6010B Analyst: J. KRAMER Analysis De Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SA Parameter CADMIUM CALCIUM ICP SW846-6010B Analyst: J. KRAMER Analysis Da Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SA Parameter CALCIUM CHROMIUM ICP SW846-6010B Analyst: J. KRAMER Analysis Da Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SA Parameter Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SA Parameter	BDL ate: 19-SEP-01 02:38	0.0040 mg/L NELAC:Y Test: M108.3.0 Det. Limit Units 0.0050 mg/L NELAC:Y Test: M109.3.0 Det. Limit Units 0.10 mg/L NELAC:Y NELAC:Y NELAC:Y
CADMIUM ICP SW846-6010B Analyst: J. KRAMER Analysis De Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SA Parameter CADMIUM CALCIUM ICP SW846-6010B Analyst: J. KRAMER Analysis Da Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SA Parameter CALCIUM CHROMIUM ICP SW846-6010B Analyst: J. KRAMER Analysis Da Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SA	BDL ate: 19-SEP-01 02:38	0.0040 mg/L NELAC:Y Test: M108.3.0 Det. Limit Units 0.0050 mg/L NELAC:Y Test: M109.3.0 Det. Limit Units 0.10 mg/L NELAC:Y Test: M110.3.0 Det. Limit Units O.10 Det. Limit Units O.10 Det. Limit Units O.10 Det. Limit Units O.10 Det. Limit Units

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	NTAL SERVICES, LLC		: A566288 DL	NELAC:Y
	Analysis Dale: 17.54		rest. mil	
FAA OR ICP ACID DI	IGESTION OF AQUEOUS SAMPLES SW8	Result	Det. Limit	Units
	Parameter	BDL	0.020	mg/L
ER		BUL		
I ICP SW846-60 yst: J. Kramer	analysis Date: 37 ye	Eb-01 05:20 1112ri micirci	Test: M115	NELAC:Y .3.0
FAA OR ICP ACID D	IGESTION OF AQUEOUS SAMPLES SW8	Result	Det. Limit	Units
·	Parameter	6.1	0.025	IIIg/ L
NESIUM ICP SWE	346-6010B	EP-01 02:38	Test: M118	NELAC:Y 3,3.0
FAA OR ICP ACID D	IGESTION OF AQUEOUS SAMPLES SWE Parameter	Result 41.	Det. Limit 0.10	Units mg/L
NESIUM'		41.		
GANESE ICP SW	846-6010B Analysis Date: 19-S DIGESTION OF AQUEOUS SAMPLES SW	SEP-01 02:38 Instrument: ICP W846-3005A P130.4.0	Test: Mil	
GANESE	Parameter	Result 0.14	Det. Limit 0.010	Units mg/L
lyst: J. KRAMER : FAA OR ICP ACID	DIGESTION OF AQUEOUS SAMPLES SE Parameter	W846-3005A P130.4.0 Result BDL	Det. Limit 0.010	Units mg/L
KEL		BUL		
	/846-6010B Analysis Date: 19- DIGESTION OF AQUEOUS SAMPLES SI	SEP-01 02:38 Instrument: ICP W846-3005A P130.4.0	Test: M1	NELAC:Y 26.3.0
SE FAR ON TOP MOSE	Parameter	Result 2.8	Det. Limit	
TASSIUM	<u> </u>	1 2.0		3.12.0.48.W
LVER ICP SW840 alyst: J. KRAMER	5-6010B Analysis Date: 19- DIGESTION OF AQUEOUS SAMPLES S	-SEP-01 02:38 Instrument: ICP SW846-3005A P130.4.0	Test: M1	30.3.0
p: FAA OR ICH ACID	Parameter	Result	Det. Limit	Units mg/L
LVER		BDL		
DIUM ICP SW84	Analysis Date: 17	-sep-01 02:38 Instrument: ICP SW846-3005A P130.4.0	7eSt: M′	
PER PAR UK TEP ACTO	Parameter	Kesutt		Units mg/L
DIUM		30.	0.10	
NADIUM ICP SW	Analysis Date: 17	p-SEP-01 02:38 Instrument: ICP	Test: M	NELAC:N 138.3.0
DIUM NADIUM ICP SW	Parameter .	30. Resu 30. P-SEP-01 02:38 Instrumen	lt	Det. Limit 0.10

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		Result	Det. Limit Units
VANADIUM	Parameter	BDL	0.010 mg/L
ZINC ICP SW846-6 Analyst: J. KRAMER Prep: FAA OR ICP ACID	Analysis Date: 19	0-SEP-01 02:38 Instrument: ICP SW846-3005A P130:4:0	NELAC:Y Test: M139.3.0
ZINC	Parameter	Result BDL	Det. Limit Units 0.020 mg/L
Analyst: D. DRABENSTO	CP SW846-6010B DTT Analysis Date: 19 DIGESTION OF AQUEOUS SAMPLES	-SEP-01 16:26 Instrument: TRACE ICF SW846-3005A P130.4.0	NELAC:Y P Test: M103.0;0
ARSENIC	Parameter	Result 0.011	Det. Limit Units 0.0050 mg/L
Analyst: D. DRABENSTO	SW846-6010B DIT Analysis Date: 19 DIGESTION OF AQUEOUS SAMPLES	-SEP-01 16:26 Instrument: TRACE ICF	NELAC:Y Test: M116.0.0
LEAD	Parameter	Result BDL	Det. Limit Units 0.0050 mg/L
Analyst: D. DRABENSTO		-SEP-01 16:26 Instrument: TRACE ICF SW846-3005A P130.4.0	
SELENIUM	Parameter	Result BDL	Det. Limit Units 0.0050 mg/L
020220		DOL	0.0050 IIIg/ L
THALLIUM TRACE I	CP SW846-6010B OTT Analysis Date: 19 DIGESTION OF AQUEOUS SAMPLES:	-SEP-01 16:26 Instrument: TRACE ICP	NELAC:Y
THALLIUM TRACE I	DTT Analysis Date: 19		NELAC:Y
THALLIUM TRACE I Analyst: D. DRABENSTO Prep: FAA OR ICP ACID THALLIUM MERCURY CVAA ACI	DIT Analysis Date: 19 DIGESTION OF AQUEOUS SAMPLES: Parameter D DIGESTION OF AQUEOU	-SEP-01 16:26 Instrument: TRACE ICP SW846-3005A P130.4:0 Result	NELAC:Y Test: M134.0.0 Det. Limit Units 0.010 mg/L
THALLIUM TRACE I Analyst: D. DRABENSTO Prep: FAA OR ICP ACID THALLIUM MERCURY CVAA ACI	DIT Analysis Date: 19 DIGESTION OF AQUEOUS SAMPLES: Parameter D DIGESTION OF AQUEOU Analysis Date: 17 Parameter R VOLUME	-SEP-01 16:26 Instrument: TRACE ICP SW846-3005A P130.4.0 Result BDL S SAMPLES SW846-7470A	NELAC:Y Test: M134.0.0 Det. Limit Units 0.010 mg/L
THALLIUM TRACE I Analyst: D. DRABENSTO Prep: FAA OR ICP ACID THALLIUM MERCURY CVAA ACI Analyst: J. O'BRYAN INITIAL WEIGHT OF FINAL VOLUME MERCURY CVAA SW8 Analyst: J. O'BRYAN	DIT Analysis Date: 19 DIGESTION OF AQUEOUS SAMPLES: Parameter D DIGESTION OF AQUEOU Analysis Date: 17 Parameter DR VOLUME	-SEP-01 16:26 Instrument: TRACE ICP SW846-3005A P130.4:0 Result BDL S SAMPLES SW846-7470A -SEP-01 12:30 Instrument: PREP Result 40	NELAC:Y Test: M134.0.0 Det. Limit Units mg/L Test: P131.6.0 Det. Limit Units mL mL MELAC:Y
THALLIUM TRACE I Analyst: D. DRABENSTO Prep: FAA OR ICP ACID THALLIUM MERCURY CVAA ACI Analyst: J. O'BRYAN INITIAL WEIGHT OF INAL VOLUME MERCURY CVAA SW8 Analyst: J. O'BRYAN	DIT Analysis Date: 19 DIGESTION OF AQUEOUS SAMPLES: Parameter D DIGESTION OF AQUEOU Analysis Date: 17 Parameter DR VOLUME	-SEP-01 16:26 Instrument: TRACE ICP SW846-3005A P130:4:0 Result BDL S SAMPLES SW846-7470A -SEP-01 12:30 Instrument: PREP Result 40 40 40 -SEP-01 12:39 Instrument: CVAA	NELAC:Y Test: M134.0.0 Det. Limit Units mg/L Test: P131.6.0 Det. Limit Units mL mL MELAC:Y
THALLIUM TRACE I Analyst: D. DRABENSTO Prep: FAA OR ICP ACID THALLIUM MERCURY CVAA ACI Analyst: J. O'BRYAN INITIAL WEIGHT OF FINAL VOLUME MERCURY CVAA SW8 Analyst: J. O'BRYAN Prep: MERCURY CVAA ACID MERCURY MERCURY CVAA ACID MERCURY DIGESTION OF AQUEOUS SAMPLES: Parameter D DIGESTION OF AQUEOU Analysis Date: 17 Parameter R VOLUME Analysis Date: 18 D DIGESTION OF AQUEOUS SAMPLES Parameter TION SW846-9010A	-SEP-01 16:26 Instrument: TRACE ICP SW846-3005A P130.4:0 Result BDL S SAMPLES SW846-7470A -SEP-01 12:30 Instrument: PREP Result 40 40 40 -SEP-01 12:39 Instrument: CVAA -SEP-01 12:39 Result Result -SEP-01 12:39 Result -SEP-01 12:39 Result	NELAC:Y Test: M134.0.0 Det. Limit	
THALLIUM TRACE I Analyst: D. DRABENSTO Prep: FAA OR ICP ACID THALLIUM MERCURY CVAA ACI Analyst: J. O'BRYAN INITIAL WEIGHT OF FINAL VOLUME MERCURY CVAA SW8 Analyst: J. O'BRYAN Prep: MERCURY CVAA ACI MERCURY CYANIDE DISTILLA Analyst: T. DRIGGERS INITIAL WEIGHT O	DIGESTION OF AQUEOUS SAMPLES: Parameter D DIGESTION OF AQUEOU Analysis Date: 17 Parameter R VOLUME D DIGESTION OF AQUEOU Analysis Date: 18 D DIGESTION OF AQUEOUS SAMPLES Parameter TION SW846-9010A Analysis Date: 23- Parameter R VOLUME	-SEP-01 16:26 Instrument: TRACE ICP SW846-3005A:P130.4:0 Result BDL S SAMPLES SW846-7470A -SEP-01 12:30 Instrument: PREP Result 40 40 -SEP-01 12:39 Instrument: CVAA S SW846-7470A P131.6.0 Result BDL	NELAC:Y Test: M134.0.0 Det. Limit
THALLIUM TRACE I Analyst: D. DRABENSTO Prep: FAA OR ICP ACID THALLIUM MERCURY CVAA ACI Analyst: J. O'BRYAN INITIAL WEIGHT OF FINAL VOLUME MERCURY CVAA SWA Analyst: J. O'BRYAN Prep: MERCURY CVAA ACID MERCURY CYANIDE DISTILLA Analyst: T. DRIGGERS INITIAL WEIGHT OF INAL VOLUME CYANIDE, TOTAL (DIGESTION OF AQUEOUS SAMPLES: Parameter D DIGESTION OF AQUEOU Analysis Date: 17 Parameter R VOLUME D DIGESTION OF AQUEOU Analysis Date: 18 D DIGESTION OF AQUEOUS SAMPLES Parameter TION SW846-9010A Analysis Date: 23- Parameter R VOLUME	-SEP-01 16:26 Instrument: TRACE ICP SW846-3005A P130.4:0 Result BDL S SAMPLES SW846-7470A -SEP-01 12:30 Instrument: PREP Result 40 40 -SEP-01 12:39 Instrument: CVAA SSW846-7470A P131.6.0 Result BDL -SEP-01 13:00 Instrument: PREP Result 250 250	NELAC:Y Test: M134.0.0 Det. Limit

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Sample ID: A566288 DUP@MW-0427

Parameter	Result	Det. Limit	Units
CYANIDE	BDL	0.005	mg/L

Sample Comments

BDL Below Detection Limit

Sample was received on ice at temperature 6.8 C. All aqueous samples are reported on a wet weight basis unless otherwise noted. Sample chain of custody number 106227.

This Certificate shall not be reproduced, except in full, without the written approval of the lab. The sample results relate only to the analytes of interest tested or to the sample as received by the lab. Heritage Environmental Services, LLC certifies that the test results indicated as NELAC (National Environmental Laboratory Accreditation Conference) accredited (Yes for NELAC) meet all requirements of NELAC and Illinois EPA Part 186 unless otherwise explained or justified as to the the exact nature of the deviations. Heritage Environmental Services, LLC is accredited under Illinois NELAC accreditation number 100401. Arizona License Number AZ0627.

pproved: <u>Pt Seuce OA</u>

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CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, LLC	13-SEP-01		A566290
COMMERCIAL LABORATORY OPERATIONS	Complete	PO Number	
7901 W. MORRIS ST.	26-SEP-01	DP 00151	
INDIANAPOLIS, IN 46231	Printed	Sampled	
(317)243-8304	27-SEP-01	13-SEP-0	1 13:25

Report To

Bill To

DAN SAMMONS, MFWTP IND. WASTE LABORATORY ACCOUNTS PAYABLE LOUISVILLE AND JEFFERSON COUNTY M.S.D. LOUISVILLE & JEFFE P.O. BOX 740011 PO BOX 740011 LOUISVILLE, KY 40201 LOUISVILLE, KY 40201

LOUISVILLE & JEFFERSON COUNTY M.S.D. PO BOX 740011 LOUISVILLE, KY 40201

Sample Description

CLIENT ID: MW-0527

MATRIX TYPE: NON-SPECIFIC WATER

WELL NUMBER: MW-0527 Submitter Code :4217

VOLATILE ORGANICS SW846-8240B Analyst: H. WILLIAMS Analysis Date: 19-SEP-01 09:41	1. Instrument: GC/MS VOA	Test: 0510	NELAC:N
Parameter	Result	Det. Limit	Units
ACETONE	BDL	20	ug/L
ACROLEIN	BDL	50	ug/L
ACRYLONITRILE	BDL	70	ug/L
BENZENE	BDL	5.0	ug/L
BROMODICHLOROMETHANE	BDL	5.0	ug/L
BROMOFORM	BDL	5.0	ug/L
BROMOMETHANE	BDL	- 10	ug/L
CARBON DISULFIDE	BOL	5.0	ug/L
CARBON TETRACHLORIDE	BDL	5.0	ug/L
CHLOROBENZENE	BDL	5.0	ug/L
CHLOROETHANE	BDL	10	ug/L
CHLOROFORM	BDL	5.0	ug/L
CHLOROMETHANE	BDL	10	ug/L
DIBROMOCHLOROMETHANE	BDL	5.0	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5.0	ug/L
DICHLORODIFLUOROMETHANE	BDL	5.0	ug/L
1,1-DICHLOROETHANE	BDL	5.0	ug/L
1,2-DICHLOROETHANE	# BDL # 1 FI HATE HE	5.0	ug/L
1,1-DICHLOROETHENE	BDL	5.0	ug/L
1,2-DICHLOROPROPANE	BDL	5.0	ug/L
ETHYLBENZENE	BDL	5.0	ug/L
FLUOROTRICHLOROMETHANE	BDL	5.0	ug/L
2-HEXANONE	BDL ,	. 10	ug/L
METHYLENE CHLORIDE	BDL	5.0	ug/L
METHYL ETHYL KETONE	BDL	10	ug/L
4-METHYL-2-PENTANONE	BDL	10	ug/L
STYRENE	BDL	5.0	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5.0	ug/L

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Sample ID: A566290 MW-0527

Parameter	Result	Det. Limit	Units
TETRACHLOROETHENE	BDL	5.0	ug/L
TETRAHYDROFURAN	BDL	25	ug/L
TOLUENE	BDL	5.0	ug/L
1,2-DICHLOROETHENE (TOTAL)	BDL	5.0	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5.0	ug/L
1,1,1-TRICHLOROETHANE		5.0	ug/L
1,1,2-TRICHLOROETHANE	BDL	5.0	ug/L
TRICHLOROETHENE	BDL	5.0	ug/L
VINYL ACETATE	BDL	10	ug/L
VINYL CHLORIDE	BDL	10	ug/L
XYLENE (TOTAL)	BDL	5.0	ug/L
SURROGATE RECOVERY			
DICHLOROETHANE-D4	132		% Rec
TOLUENE-D8			% Rec
BROMOFLUOROBENZENE	98		% Rec
Prep Method SW846-5030B Purge and Trap			

GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTI Analyst: V. BROWN Analysis Date: 18-SEP-01	ON SW846-3510C Instrument: PREP	Test: P233.4.0)
Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1000		mL
FINAL VOLUME	ranto o al companyo da com		m

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID F Analyst: L. CALLAHAN Analysis Date: 21-SEP-01 2	RACTIONS) SW846-8270C 20:10 Instrument: GC/MS SVOA	Test: 050	NELAC:Y
Prep: GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846	5-3510C P233.4.0		
Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	10	
ACENAPHTHYLENE	BDL	10	
ANTHRACENE	BDL	10	
BENZ (A) ANTHRACENE	BDL	10	ug/L
BENZO(A)PYRENE	BDL	10	ug/L
BENZO(B) FLUORANTHENE	BDL	10	
BENZO(G,H,I)PERYLENE	BDL	10	ug/L
BENZO(K)FLUORANTHENE	BDL	10	
BENZYL ALCOHOL	BDL	10	ug/L
BENZYLBUTYLPHTHALATE	BDL	10	ug/L
BIS(2-CHLOROETHOXY)METHANE	BDL	10	ug/L
BIS(2-CHLOROETHYL)ÉTHER	BDL	10	
BIS(2-CHLOROISOPRÓPYL)ETHER	BDL	10	ug/L
BIS(2-ETHYLHEXYL)PHTHÁLATE	BDL	10	
4-BROMOPHENYLPHENYLETHER	BDL	10	ug/L
CARBAZOLE	BDL	10	ug/L
4-CHLOROANILINE	BDL	10	ug/L
2-CHLORONAPHTHALENE	BDL	10	
4-CHLOROPHENYLPHENYLETHER	BDL	10	ug/L
CHRYSENE	BDL	10	
DIBENZ(A, H) ANTHRACENE	BDL	10	ug/L
DIBENZOFURAN	BDL		ug/L
1,2-DICHLOROBENZENE	BDL	10	ug/L

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HERTIAGE ENVIRONMENTAL SERVICES, LLC	······································	e 10: A5002	,·
Parameter	Result	Det. Limit	Units
1,3-DICHLOROBENZENE	BDL	10	ug/L
1,4-DICHLOROBENZENE	BDL	10	ug/L
3,3'-DICHLOROBENZIDINE	BDL BDL	20 10	ug/L
DIETHYLPHTHALATE		10	ug/L
DIMETHYLPHTHALATE	BDL	10	ug/L
DI-N-BUTYLPHTHALATE	BDL	10	ug/L
DINITROBENZENES	BDL	50	ug/L
2,4-DINITROTOLUENE	BOL	10	ug/L
2,6-DINITROTOLUENE	BDL	10	ug/L
DI-N-OCTYLPHTHALATE	BDL	10	ug/L
FLUORANTHENE	BDL	10	ug/L
FLUORENE	BDL	10	ug/L
HEXACHLOROBENZENE	BDL	10	ug/L
HEXACHLOROBUTADIENE	BDL BDL	10	ug/L
HEXACHLOROCYCLOPENTADIENE		10	ug/L
HEXACHLOROETHANE	BDL	10	ug/L
INDENO(1,2,3-CD)PYRENE	BDL BDL	10	ug/L
ISOPHORONE		10	ug/L
2-METHYLNAPHTHALENE	BDL	10	ug/L
NAPHTHALENE	BDL	10	ug/L
2-NITROANILINE	BDL	50 50	ug/L
3-NITROANILINE	BDL	50	ug/L
4-NITROANILINE	BDL	50	ug/L
NITROBENZENE	BDL	10	ug/L
N-NITROSO-DIPHENYLAMINE	BDL	10	ug/L
N-NITROSO-DI-N-PROPYLAMINE	BDL	10	ug/L
PHENANTHRENE	BDL	10	ug/L
2-PICOLINE	BDL	50	ug/L
PYRENE	BDL BDL	10	ug/L
PYRIDINE	BDL	50	ug/L
1,2,4,5-TETRACHLOROBENZENE		10	ug/L
TOLUENEDIAMINE	BDL BDL	50	ug/L
1,2,4-TRICHLOROBENZENE	BDL	10 50	ug/L
BENZOIC ACID 4-CHLORO-3-METHYLPHENOL	BDL	10	ug/L
2-CHLOROPHENOL	BDL	10	ug/L
			ug/L
2,4-DICHLOROPHENOL 2,4-DIMETHYLPHENOL	BDL BDL	10	ug/L ug/L
4,6-DINITRO-2-METHYLPHENOL	BDL	50	ug/L ug/L
2,4-DINITROPHENOL	BDL	50	ug/L ug/L
2-METHYLPHENOL	BDL	10	ug/L ug/L
4-METHYLPHENOL	BDL	10	ug/L
2-NITROPHENOL	BDL	10	ug/L ug/L
4-NITROPHENOL			ug/L ug/L
PENTACHLOROPHENOL	BDL	50	ug/L
PHENOL		10	ug/L ug/L
1,2,4,5-TETRACHLOROBENZENE	BDL	10	ug/L ug/L
2,4,5-TRICHLOROPHENOL	- ŘĎÍ	50	ug/L
2,4,6-TRICHLOROPHENOL	BDL	10	ug/L
1			
SURROGATE RECOVERY		Autor La Tru Tru Natif	** . *
SURROGATE RECOVERT			÷* * * * * * * * * * * * * * * * * * *
2-FLUOROPHENOL	54		% Rec
L-I LOOKOF HENOL	<u> </u>		10 IVEC

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Sample ID: A566290 MW-0527

Para	ameter	Result	Det. Limit	Units
PHENOL-D5		47		% Rec
NITROBENZENE-D5		HAMA-QQYALA LA A IL MA TYYY		% Pac
2-FLUOROBIPHENYL		74		% Rec
1.2 4 6-TRIBROMOPHENOL		7.9		% Rec
TERPHENYL-D14		41		% Rec

GC SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION Analyst: S. BRYAN Analysis Date: 17-SEP-01	SW846-3510C Instrument: PREP	Test: P233.1.0)
Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	950		mL
FINAL VOLUME			mL

PCB/PESTICIDE SCAN GC:ECD SW846-8081 Analyst: T. PINCKERT Analysis Date: 21-SEP-01 01:27 Prep: GC SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C		Test: 0305	NELAC:Y
Parameter	Result	Det. Limit	Units
ALPHA-BHC	BDL	0.05	ug/L
BETA-BHC	BDL	0.05	ug/L
DELTA-BHC	BDL	0.05	ug/L
GAMMA-BHC (LINDANE)	BDL	0.05	ug/L
HEPTACHLOR	BDL	0.05	ug/L
ALDRIN	BDL	0.05	ug/L
HEPTACHLOR EPOXIDE	BDL	0.05	ug/L
ENDOSULFAN I	BDL	0.05	ug/L
DIELDRIN	BDL	0.1	ug/L
4,4/-DDE	BDL	0.1	ug/L
ENDRIN	BDL	0.1	ug/L
ENDOSULFAN II	BDL	0.1	ug/L
4,4'-DDD	BDL	0.1	ug/L
ENDOSULFAN SULFATE	BDL	0.1	ug/L
4,4'-DDT	BDL	0.1	ug/L
METHOXYCHLOR	BDL	0.5	ug/L
ENDRIN ALDEHYDE	BDL	0.1	ug/L
ENDRIN KETONE	BDL	0.1	ug/L
ALPHA-CHLORDANE	BDL	0.5	ug/L
GAMMA-CHLORDANE	BDL	0.5	ug/L
TOXAPHENE PER APOCLOR 1016	BDL		ug/L
PCB AROCLOR 1016	BDL	0.5	ug/L
PCB AROCLOR 1221 PCB AROCLOR 1232	BDL BDL	0.5	ug/L
PCB AROCLOR 1242	BDL	0.5	ug/L
PCB AROCLOR 1242	BDL	0.5	ug/L
PCB AROCLOR 1254	BDL		ug/L ug/L
PCB AROCLOR 1250	BDL	ji disədətiy i y	ug/L ug/L
MENTER BUT MANAGEMENT AND	The state of the s		45/L.
SURROGATE RECOVERY			
DECACHLOROBIPHENYL (DCB)	84.0		% Rec

FAA OR ICP ACID DIGES	TION OF AQUEOUS SAMPLES S Analysis Date: 18-SEP-01 10:0	Test: P130.4.0

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ERITAGE ENVIRONMENTAL SERVICES, LLC		ample ID: A566290 MW-0
Parameter INITIAL WEIGHT OR VOLUME	Result 20	Det. Limit Units
FINAL WEIGHT OR VOLUME	50	mL mL
ALUMINUM ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES S		NELAC: Test: M101.3.0
Parameter ALUMINUM	Result 3.8	Det. Limit Units 0.12 mg/L
ANTIMONY ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES S		NELAC: Test: M102.3.0
Parameter ANTIMONY	Result BDL	Det. Limit Units 0.025 mg/L
BARIUM ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19- Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES S		NELAC: Test: M104.3.0
Parameter BARIUM	Result 3.9	Det. Limit Units 0.025 mg/L
BERYLLIUM ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19- Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES S		NELAC:\ Test: M105:3.0
Parameter BERYLLIUM	Result BDL	Det. Limit Units 0.010 mg/L
ADMIUM ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19- rep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES S		NELAC:) Test: M108.3.0
	Result	Det. Limit Units

CALCIUM ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP-01-02:44 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A F	26999 (1.9999), 1.96 1.26. Jan 1973 (1.1. July 0.1.11999) -	Test: M109	NELAC:Y >.3.0
Parameter CALCIUM	Result	Det. Limit	Units
	100	0.25	mg/L

CHROMIUM ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP-01 02:44 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A F	St. F. M.S. N. C. Cature Stategraphic divinition in principles (NAC) in C. Cataline et al.	Test: M110	NELAC:Y
Parameter CHROMIUM	Result 0.026	Det. Limit 0.025	Units mg/L

COBALT ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP-01 02:44 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A F	 4. 64 (1) 20 (2) 60 0000000000 (4) 4. 60 (2) 68 (1) 4. 60 (2) 1. 44 (2) (3) (1) 4. 60 (2) 1. 	Test: M11	NELAC:Y
Parameter COBALT	Result 0.072	Det. Limit 0.025	Units mg/L

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 - bill of neoligent acts, errors or omissions of the Client; or
 - c. of Client's failure to perform its obligations under this Agreement.

ERITAGE ENVIRONMENTAL SERVICES, LLC	Sa	mple ID: A566290 MW-052
COPPER ICP SW846~6010B Analyst: J. KRAMER Analysis Date: 19-SEP- Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846	01 02:44 Instrument: ICP 3005A P130.4.0	NELAC:Y Test: M112.3.0
Parameter COPPER	Result BDL	Det. Limit Units 0.050 mg/L
IRON ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP-		
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846 Parameter IRON	Result 160	Det. Limit Units 0.062 mg/L
MAGNESIUM ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP-0 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-		NELAC:Y Test: M118.3.0
Parameter MAGNESIUM	Result 36.	Det. Limit Units 0,25 mg/L
MANGANESE ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP-0 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-		NELAC:Y Test: M119.3.0
Parameter MANGANESE	Result 1.2	Det. Limit Units 0.025 mg/L
NICKEL ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP-0 Prep: FAA OR 1CP ACID DIGESTION OF AQUEOUS SAMPLES SW846-	- 1988), 488,001,00001,259,00, 0005000 1001,1001,2005,00 1 POPE DEPOPUED NO	NELAC:Y Test: M122.3.0
Parameter : NICKEL	Result 0.14	Det. Limit Units 0.025 mg/L
POTASSIUM ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP-C Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-		NELAC:Y Test: M126:3.0
Parameter POTASSIUM	Result 20.	Det. Limit Units 0.25 mg/L
SILVER ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP-0 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-	1 02:44 Instrument: ICP 3005A P130.4.0	NELAC:Y Test: M130.3.0
Parameter SILVER	Result BDL	Det. Limit Units 0.025 mg/L
SODIUM ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP-0 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-	1 02:44 Instrument: ICP 3005A P130.4.0	NELAC:Y Test: M131.3.0
Parameter SODIUM	Result 42.	Det. Limit Units 0.25 mg/L
001011		

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HERITAGE ENVIRONMENTAL SER	AICES.	LLC
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VANADIUM	Parameter ·	Result BDL	Det. Limit Units 0.025 mq/L
VANADION		BUL	0.025 hig/ L
ZINC ICP SW84 Analyst: J. KRAME Prep: FAA OR ICP A		19-SEP-01 02:44 Instrument: ICP S SW846-3005A P130.4:0	
ZINC	Parameter	Result BDL	Det. Limit Units 0.050 mg/L
Analyst: D. DRABE	ICP SW846-6010B NSTOTT Analysis Date: CID DIGESTION OF AQUEQUS SAMPLE	19-SEP-01 16:35 Instrument: TRACE I S SW846-3005A P130.4.0	NELAC:Y CP Test: M103.0.0
ARSENIC	Parameter	Result 1.1	Det. Limit Units 0.012 mg/L
Analyst: D. DRABE	P SW846-6010B NSTOTT Analysis Date: C1D DIGESTION OF AQUEOUS SAMPLE	20-SEP-01 21:53 Instrument: TRACE I S SW846-3005A P130.4.0	NELAC:Y CP Test: M116.0.0
LEAD	Parameter	Result 0.17	Det. Limit Units 0.012 mg/L
Analyst: D. DRABE	E ICP SW846-6010B NSTOTT Analysis Date: CID DIGESTION OF AQUEOUS SAMPLE	19-SEP-01 16:35 Instrument: TRACE I \$ SW846-3005A P130:4:0	NELAC:Y CP Test: M128.0.0
SELENIUM	Parameter	Result BDL	Det. Limit Units 0.012 mg/L
Analyst: D. DRABE	E ICP SW846-6010B NSTOTT Analysis Date: CID DIGESTION OF AQUEOUS SAMPLE	23-SEP-01 23:12 Instrument: TRACE I S SW846-3005A P130:4:0	NELAC:Y CP Test: M134.0.0
THALLIUM	Parameter	Result BDL	Det. Limit Units 0.025 mg/L
		OUS SAMPLES SW846-7470A 17-SEP-01-12:30 Instrument: PREP	Test: P131.6.0
INITIAL WEIGH FINAL VOLUME		Result 40 40	Det. Limit Units mL mL
000000000000000000000000000000000000000	AN Analysis Date:	18:SEP-01 12:39 Instrument: CVAA LES SW846-7470A P131.6.0	NELAC:Y Test: M120.1.0
MERCURY	Parameter	Result BDL	Det. Limit Units 0.00020 mg/L
	LLATION SW846-9010A ERS Analysis Date:	23:SEP-01 13:00 Instrument: PREP	Test: P101.4.0
NITIAL WEIGHT	Parameter	Result 250 250	Det. Limit Units ML ML
	(AUTOMATER) CUOAS 001	2	NELAC:Y
	_ (AUTOMATED) SW846-901 Analysis Date:		 Leavisition (1988) - Resident for the participation of the

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Sample ID: A566290 MW-0527

Parameter	Result	Det. Limit	Units
CYANIDE	BDL	0.005	mg/L

Sample Comments

BDL Below Detection Limit

Sample was received on ice at temperature 6.8 C. All aqueous samples are reported on a wet weight basis unless otherwise noted. Sample chain of custody number 106227.

This Certificate shall not be reproduced, except in full, without the written approval of the lab. The sample results relate only to the analytes of interest tested or to the sample as received by the lab. Heritage Environmental Services, LLC certifies that the test results indicated as NELAC (National Environmental Laboratory Accreditation Conference) accredited (Yes for NELAC) meet all requirements of NELAC and Illinois EPA Part 186 unless otherwise explained or justified as to the the exact nature of the deviations. Heritage Environmental Services, LLC is accredited under Illinois NELAC accreditation number 100401. Arizona License Number AZ0627.

Approved: It Seuce DAS

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CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, LLC	13-SEP-01		A566293
COMMERCIAL LABORATORY OPERATIONS	Complete	PO Nu	mber
7901 W. MORRIS ST.	25-SEP-01	DP 00151	
INDIANAPOLIS, IN 46231	Printed	Sampl	ed ·
(317)243-8304	25-SEP-01	13-SEP-01	18:50

Report To

Bill To

DAN SAMMONS, MFWTP IND. WASTE LABORATORY ACCOUNTS PAYABLE LOUISVILLE AND JEFFERSON COUNTY M.S.D. LOUISVILLE & JEFFERSON COUNTY M.S.D. P.O. BOX 740011 LOUISVILLE, KY 40201

PO BOX 740011 LOUISVILLE, KY 40201

Sample Description

CLIENT ID: MW-A27

MATRIX TYPE: NON-SPECIFIC WATER

WELL NUMBER: MW-A27 Submitter Code :4217

VOLATILE ORGANICS SW846-8240B Analyst: H. WILLIAMS Analysis Date: 19-SEP-	01 12:43 Instrument: GC/MS	VOA Test: 0510	NELAC:N
Parameter	Result	Det. Limit	Units
ACETONE	BDL	20	ug/L
ACROLEIN	BDL	50	J,
ACRYLONITRILE	BDL	70	ug/L
BENZENE	BDL		ug/L
BROMODICHLOROMETHANE	BDL	5.0	ug/L
BROMOFORM	BDL	5.0	ug/L
BROMOMETHANE	BDL	10	ug/L
CARBON DISULFIDE	BDL	5.0	ug/L
CARBON TETRACHLORIDE	BDL	5.0	ug/Ŀ
CHLOROBENZENE	BDL	5.0	ug/L
CHLOROETHANE	BDL	10	ug/L
CHLOROFORM	BDL	5.0	ug/L
CHLOROMETHANE	BDL	10	ug/L
DIBROMOCHLOROMETHANE	BDL	5.0	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5.0	ug/L
DICHLORODIFLUOROMETHANE	BDL	5.0	ug/L
1,1-DICHLOROETHANE	BDL	5.0	ug/L
1,2-DICHLOROETHANE	BDL	5.0	ug/L
1,1-DICHLOROETHENE	BDL	5.0	ug/L
1,2-DICHLOROPROPANE	BDL	5.0	ug/L
ETHYLBENZENE	BDL	5.0	ug/L
FLUOROTRICHLOROMETHANE	BOL	5.0	ug/L
2-HEXANONE	BDL	10	ug/L
METHYLENE CHLORIDE	BDC	5.0	ug/L
METHYL ETHYL KETONE	BDL	10	ug/L
1-METHYL-2-PENTANONE	BDL	10	ug/L
STYRENE	BDL	5.0	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL/Wind but Means	and the second of the second	ug/L

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ITAGE ENVIRONMENTAL SERVICES, LLC	Result	Det. Limit 5.0	ug/L
Parameter	BDL	25	ug/L
TRACHLOROETHENE	BDL	5.0	ug/L
TRAHYDROFURAN	BDL	5.0	ug/L
LUENE / TOTAL)	BDL	5.0	ug/L
2-DICHLORUE THENE	BDL	5.0	ug/L
2-DICHEOROETHENE RANS-1,3-DICHLOROPROPENE	BDL	5.0	
1 RICHLOROCTURING	BDL	5.0	
1,1-TRICHLOROETHANE ,1,2-TRICHLOROETHENE RICHLOROETHENE	BDL		A STATE OF THE STA
STCHFOROFILIENC	BDL	10	
INYL ACETATE INYL CHLORIDE	BDL BDL	5.0	ı ug/L
INVECHLORIUE			
YLENE (TOTAL)		The state of the s	gy Protes (A.A. Sraw
*** DECOVERY	1. W		% Rec
URROGATE RECOVERY	127	A word was warned to	% Rec % Rec
OPOCTUANE-DA	112		% Rec
DICHLOROETHANE-D4 FOLUENE-D8	99		1/0 1160

Prep Method Shoto Cook		THE RESERVE THE PARTY OF THE PA	
	ACTION SW846-3510C		0
GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTR	Instrument: PREP	Test: P233.4.	Units
GC/MS SEPARATORY FUNNEL LIQUID-LIQUID Analysis: Date: 18-SEP-01	Result	Det. Limit	mL.
Parameter	980	er was seen to being	ml
INITIAL WEIGHT OR VOLUME	1.0		
			NELAC: Y
MINACINOCOMO	EDACTIONS) SW846-8270C	2 2 75	

INAL VOLUME EMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) Analyst: L. CALLAHAN Analyst: Date: 21-SEP-01-22:12 Analyst: C. CALLAHAN Perp: GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-35:10C P233-6 ACENAPHTHENE ACENAPHTHYLENE BENZ(A)ANTHRACENE BENZ(A)ANTHRACENE BENZ(A)ANTHRACENE BENZO(A)PYRENE BENZO(B)FLUORANTHENE BENZO(G,H,I)PERYLENE BENZO(G,H,I)PERYLENE BENZO(K)FLUORANTHENE BENZYL ALCOHOL BENZYL ALCOHOL BENZYL BUTYL PHTHALATE BOL BIS(2-CHLOROETHYL)ETHER BOL BIS(2-CHLOROETHYL)ETHER	Result 10 ug/	L/L/L/L/L/L/L/L/L/L/L/L/L/L/L/L/L/L/L/
CENAPHTHENE CENAPHTHYLENE CENAPHTHYLENE CENAPHTHYLENE CENAPHTHYLENE CENAPHTHYLENE CENAPHTHYLENE CENAPHTHYLENE CENAPHTHYLENE CENAPHTHYLENE CENAPHTHENE	10 ug/	L/L/L/L/L/L/L/L/L/L/L/L/L/L/L/L/L/L/L/
CENAPHTHYLENE CENAPHTHYLENE NTHRACENE ENZ(A)ANTHRACENE ENZO(A)PYRENE SENZO(B)FLUORANTHENE BENZO(G,H,I)PERYLENE BENZO(K)FLUORANTHENE BENZYL ALCOHOL BENZYL BUTYLPHTHALATE BENZYLBUTYLPHTHALATE BDL	10 ug/	/L /
CENAPHTHYLENE BDL NTHRACENE ENZ(A)ANTHRACENE BDL ENZO(A)PYRENE ENZO(B)FLUORANTHENE BDL SENZO(G,H,I)PERYLENE BDL SENZO(K)FLUORANTHENE BDL SENZYL ALCOHOL BENZYL BUTYLPHTHALATE BDL BENZYLBUTYLPHTHALATE BDL	10 ug/	/L /L /L /L /L /L /L
NTHRACENE ENZ(A)ANTHRACENE ENZO(A)PYRENE ENZO(B)FLUORANTHENE ENZO(G,H,I)PERYLENE ENZO(K)FLUORANTHENE ENZO(K)FLUORANTHENE BDL BENZYL ALCOHOL BENZYL BUTYLPHTHALATE BDL BDL	10 ug/	/\ /\/ /\/ /\/ /\/ /\/ /\/ /\/ /\/ /\/
ENZ(A)ANTHRACENE ENZO(A)PYRENE ENZO(B)FLUORANTHENE ENZO(G,H,I)PERYLENE ENZO(K)FLUORANTHENE ENZO(K)FLUORANTHENE ENZYL ALCOHOL BENZYL BUTYLPHTHALATE BDL BENZYLBUTYLPHTHALATE BDL	10 ug/ 10 ug/ 10 ug/ 10 ug/ 10 ug/ 10 ug/ 10 ug/ 10 ug/ 10 ug/	/\ /\ /\
ENZO(A)FTRUCTE ENZO(B)FLUORANTHENE ENZO(G,H,I)PERYLENE ENZO(K)FLUORANTHENE ENZYL ALCOHOL ENZYL BUTYLPHTHALATE ENZYLBUTYLPHTHALATE BDL	10 ug, 10 ug, 10 ug, 10 ug 10 ug	/\ /\ /\
ENZO(G,H,1)PERTLEME ENZO(K)FLUORANTHENE ENZYL ALCOHOL ENZYL BUTYLPHTHALATE ENZYLBUTYLPHTHALATE BDL BDL	10 ug, 10 ug, 10 ug 10 ug 10 ug	/L /L /L
ENZO(G,H,1)PERTLENE ENZO(K)FLUORANTHENE ENZYL ALCOHOL ENZYL BUTYLPHTHALATE ENZYLBUTYLPHTHALATE BDL ENZYLBUTYLPHTHALATE BDL	10 ug 10 ug 10 ug]/L]/L
ENZYL ALCOHOL ENZYL BUTYLPHTHALATE ENZYLBUTYLPHTHALATE ENZYLBUTYLPHTHALATE BDL BDL	10 ug 10 ug	J/L
ENZYL ALCOHOL ENZYLBUTYLPHTHALATE BDL BDL BDL	iolug	
ENZYLBUTYLPH HALATE BUL		1.71°
	## 10 tua	
LONG EMPAGRADACTUVE PROPERTY CONTROL OF THE RESERVENCE OF THE RESE		g/L
	The control of the co	g/L
		g/L
STATA FULL VIOLENTI I TURBUNGO POR PROPERTO CONTRA		g/L
		g/L
SANDAZAIII WAXIII WAXII	그 것 같다. 그는 그의 그는 사람 선생님들이 나는 소설에 되었다. 살고 중심에 🖷 🚩 (제한 편)	19/L
4-CHLOROANILINE 2-CHLORONAPHTHALENE BD CHLORONAPHTHALENE BD		ıg/l
2-CHLORONAPHTHALENL A CHLOROPHENYLPHENYLETHER BD	. a - till 10 - berthill av bert i 20 fabrert i 10 - a - till av 🖎 🔻 🖡 till	1g/
		ا/ور ا
CHRYSENE DIBENZ(A,H)ANTHRACENE BD	N M	ug/ ug/

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Parameter	Result	Det.	Limit	Units
1,3-DICHLOROBENZENE	BDL		10	ug/L
1,4-DICHLOROBENZENE	BDL		10	
3,3'-DICHLOROBENZIDINE	BDL		20	ug/L
DIETHYLPHTHALATE	BDL		10	
DIMETHYLPHTHALATE	BDL		10	ug/L
DI-N-BUTYLPHTHALATE	BDL		10	
DINITROBENZENES	BDL		51	ug/L
2,4-DINITROTOLUENE	BDL		10	
2,6-DINITROTOLUENE	BDL		10	ug/L
DÍ-N-OCTYLPHTHALATE	BDL		10	ug/L
FLUORANTHENE	BDL		10	ug/L
FLUORENE	BDL		10	ug/L
HEXACHLOROBENZENE	BDL		10	ug/L
HEXACHLOROBUTADIENE	BDL		10	ug/L
HEXACHLOROCYCLOPENTADIENE	BDL		10	ug/L
HEXACHLOROETHANE	BDL		10	
INDENO(1,2,3-CD)PYRENE	BDL		10	ug/L
ISOPHORONE	BDL		10	
2-METHYLNAPHTHALENE	BDL		10	ug/L
NAPHTHALENE	BDL		10	
2-NITROANILINE	BDL		51	ug/L
3-NITROANILINE	BDL		51	ug/L
4-NITROANILINE	BDL		51	ug/L
NITROBENZENE	BDL		10	ug/L
N-NITROSO-DIPHENYLAMINE	BDL		10	ug/L
N-NITROSO-DI-N-PROPYLAMINE	BDL		10	ug/L
PHENANTHRENE	BDL		10	ug/L
2-PICOLINE	BDL		51	ug/L
PYRENE	BDL		10	ug/L
PYRIDINE	BDL		51	ug/L
1,2,4,5-TETRACHLOROBENZENE	BDL		10	ug/L
TOLUENEDIAMINE	BDL		51	ug/L
1,2,4-TRICHLOROBENZENE	BDL		10	ug/L
BENZOIC ACID	BDL		51	ug/L
4-CHLORO-3-METHYLPHENOL	BDL		10	ug/L
2-CHLOROPHENOL	BDL		10	ug/L
2,4-DICHLOROPHENOL	BDL		10	ug/L
2,4-DIMETHYLPHENOL	BDL			ug/L
4,6-DINITRO-2-METHYLPHENOL	BDL		51	ug/L
2,4-DINITROPHENOL	BDL		51	ug/L
2-METHYLPHENOL	BDL		10	ug/L
4-METHYLPHENOL	BDL			ug/L
2-NITROPHENOL	BDL			ug/L
4-NITROPHENOL	BDL			ug/L
PENTACHLOROPHENOL	BDL			ug/L
PHENOL	BDL			ug/L
1,2,4,5-TETRACHLOROBENZENE	BDL			ug/L
2,4,5-TRICHLOROPHENOL	BDL			ug/L
2,4,6-TRICHLOROPHENOL	BDL	s i aliaa mee ee ea	10	ug/L
AUDDONITE DECOUEDY				
SURROGATE RECOVERY		5 Januar	rygg i saml	ere indiana an ama an Tan
A STREET OF THE				
2-FLUOROPHENOL	55			% Rec

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Sample ID: A566293 MW-A27

Parameter	Result	Det. Limit	Units
PHENOL-D5	37		% Rec
NITROBENZENE-D5	1014 0.7 4 waxaan		M-KPC
2-FLUOROBIPHENYL	79		% Rec
2 A C TOTODOMODUCNOL	81		% Rec
TERPHENYL-D14	59		% Rec

GC SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION Analyst: S. BRYAN Analysis Date: 17-SEP-01	SW846-3510C Instrument: PREP	Test: P233.1.0)
Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	990		mL
FINAL VOLUME	10		

Parameter	Result	Det. Limit	Units
LPHA-BHC	BDL	0.05	ug/L
ETA-BHC	BDL	0.05	ug/L
ELTA-BHC	BDL	0.05	ug/L
AMMA-BHC (LINDANE)	BDL	0.05	ug/L
EPTACHLOR	BDL	0.05	ug/L
LDRIN	BDL	0.05	ug/L
EPTACHLOR EPOXIDE	BDL	0.05	ug/L
NDOSULFAN I	BDL	0.05	ug/L
IELDRIN	BDL	0.1	ug/L
,4'-DDE	BDL	0.1	ug/L
NDRIN	BDL	0.1	ug/L
NDOSULFAN 11	BDL	0.1	ug/L
,4'-DDD	BDL	0.1	ug/L
NDOSULFAN SULFATE	BDL	0.1	ug/L
,4'-DDT	BDL	0.1	ug/L
ETHOXYCHLOR	BDL	0.5	ug/L
NDRIN ALDEHYDE	BDL	0.1	ug/L
NDRIN KETONE	BDL	0.1	ug/L
LPHA-CHLORDANE	BDL	0.5	ug/L
AMMA-CHLORDANE	BDL	0.5	ug/L
OXAPHENE	BDL	1	ug/L
CB AROCLOR 1016	BDL	0.5	ug/L
CB AROCLOR 1221	BDL	0.5	ug/L
CB AROCLOR 1232	BDL	0.5	ug/L
CB AROCLOR 1242	BDL	0.5	ug/L
CB AROCLOR 1248	BDL	0.5	ug/L
CB AROCLOR 1254	BDL		ug/L
CB AROCLOR 1260	BDL		ug/L

FAA OR ICP ACID DIGESTION OF Analyst: M. HALL Analys	SW846-3005A 00. Instrument: PREP	Test: P130.4.0

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INITIAL WE	VVIRONMENTAL SERVICES Parameter IGHT OR VOLUME		Sample ID: A566293
FINAL WEIG	HT OR VOLUME	Result 50	Det. Limit U
		50	mL
	CP SW846-6010B		, mL
Prep: FAA OR 10	Analysis P ACID DIGESTION OF AQUEOUS	Date: 19-SEP-01 D2:54 Instrument: ICP SAMPLES SW846-3005A P130.4.0	NEL
ALUMINUM	Parameter	130,4,8	Test: M101.3.0
		0.40	Det. Limit Un
ANTIMONY IC	P SW846-6010B		U.050 ma//
	AMED (2007) - 11 2 1/2 11/2 (2017) 1 (2017) 2 (2017)	ate: 19-SEP-01 02:54 Instrument: ICP	NELA
	Anatysis D PACID DIGESTION OF AQUEOUS SA Parameter	AMPLES SW846-3005A P130:4.0	NELA Test: M102.3.0
ANTIMONY	r at ameter	Result	T
BARIUM ICP S	UOAC CALA	BDL	Det. Limit Uni 0.010 mg/l
TO THE TAX PART OF THE PROPERTY OF THE PROPERT	MF D000 - 10000000000000000000000000000000		0.010 mg/L
Prep: FAA DR ICP	ACID DIGESTION OF AQUEOUS SAN	te: 19-SEP-01 02:54 Instrument: ICP	NELAC
BARIUM	Parameter	9.9 3003A P13U-4-0	Test: M104.3.0
<u> </u>		0.023	Det. Limit Unit
BERYLLIUM ICE	SW846-6010B		0.010 mg/L
一位, 人名英克尔伊 智 医多色性溶液 医垂膀胱		e: 19-SEP-01 02:54	_ NELAC
{	Analysis Dat CID DIGESTION OF AQUEOUS SAME Parameter	PLES SW846-3005A P130.4.0	Test: M105.3.0
BERYLLIUM	- or directly	Result	Dot 1111
CADMIUM ICP SI	JAAR_EOTOD	BDL	Det. Limit Units 0.0040 mg/L
WELL TO STATE OF THE STATE OF T		• • • • • • • • • • • • • • • • • • • •	. 3/ 5
Prep: FAA OR ICP AC		: 19-SEP-01 02:54	NELAC: Test: M108.3.0
CADMIUM	Parameter		
CALCYUM	200	Result BDL	Det. Limit Units
CALCIUM ICP SW Analyst: J. KRAMER			0.0050 mg/L
Prep: FAA OR ICP ACI	Analysis Date: D DIGESTION OF AQUEOUS SAMPLE Parameter	19-SEP-01 02:54 Instrument: ICP	_ NELAC:Y
CALCIUM	Parameter Parameter	:S SW846-3005A P130.4.0	Test: M109_3.0
		Result 100	Det. Limit Units
HROMIUM ICP SW	846-6010B		0.10 mg/L
" " TO THE OF THE PARTY OF THE		19-SEP-01 n2-5/	MELACIA
	Analysis Date: DIGESTION OF AQUEOUS SAMPLES Parameter	5 SW846-3005A P130.4.0	NELAC:Y Test: M110.3.0
HROMIUM	rarameter	Result	
DBALT ICP SW846		0.032	Det. Limit Units 0.010 mg/l
" KRAMED			0.010 mg/L
PD. EAA OD TOD	Analysis Date: 15 DIGESTION OF AQUEOUS SAMPLES Parameter	9-SEP-01 02:54 Instrument: ICP	. NELAC:Y
PATTA OR TUP ACID		9W040-3005A P130 X A	Test: M111.3.0
	Parameter		
BALT	Parameter	Result BDL	Det. Limit Units 0.010 mg/l

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CODDED TCD SHOAS SOLOD		Sample ID: A566	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
COPPER ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP-01 02:5		Test: M11	NELAC:Y
rep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A			Τ
Parameter COPPER	Result BDL	Det. Limit 0.020	Units mg/L
IRON ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP-01 02:5 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A	4 Instrument: ICP	Test: M11	NELAC:Y 5.3.0
Parameter [RON	Result 1.4	Det. Limit 0.025	Units mg/L
MAGNESIUM ICP SW845-6010B Analyst: J. KRAMER Analysis Date: 19-SEP-01 02:5 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A	4 Instrument: ICP P130.4.0	Test: M11	NELAC:Y 8.3.0
Parameter MAGNESIUM	Result 37.	Det. Limit 0.10	Units mg/L
MANGANESE ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP-01 02:5 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A	4 Instrument: ICP P130.4:0	Test: M11	NELAC:Y 9.3.0
Parameter MANGANESE	Result 0.089	Det. Limit 0.010	Units mg/L
NICKEL ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP-01 02:5 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A		Test: M122	NELAC:Y 2.3.0
Parameter NICKEL	Result 0.040	Det. Limit 0.010	Units mg/L
POTASSIUM ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP-01 02:5 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A		Test: M120	NELAC:Y
Parameter POTASSIUM	Result 2.9	Det. Limit 0.10	Units mg/L
SILVER ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP-01 02:5 rep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A (Test: M130	NELAC:Y
Parameter SILVER	Result BDL	Det. Limit 0.010	Units mg/L
SODIUM ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP-01 02:5 rep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A F		Jest: M131	NELAC:Y
	Result	Det. Limit 0.10	Units mg/L
Parameter ODIUM	34		

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VANADIUM	Parameter	Result BDL	Det. Limit Units 0.010 mg/L
	R Analysis Date: 19-	SEP-01 02:54 Instrument: ICP W846-3005A P130.4.0	
ZINC	Parameter	Result 0.022	Det. Limit Units 0.020 mg/L
Analyst: D. DRABE	ICP SW846-6010B NSTOTT Analysis Date: 19- CID DIGESTION OF AQUEOUS SAMPLES S	SEP-01 16:48 Instrument: TRACE W846-3005A P130.4.0	NELAC:Y ICP Test: M103.0.0
ARSENIC	Parameter	Result BDL	Det. Limit Units 0.0050 mg/L
Analyst: D. DRABE		SEP-01 16:48 Instrument: TRACE W846-3005A P130.4.0	
LEAD	Parameter	Result BDL	Det. Limit Units 0.0050 mg/L
Analyst: D. DRABE		SEP-01 16:48 Instrument: TRACE I W846-3005A P130.4.0	
SELENIUM	Parameter	Result BDL	Det. Limit Units 0.0050 mg/L
Analyst: D. DRABE	NSTOTT Analysis Date: 19-	SEP-01 16:48 Instrument: TRACE I #846-3005A P130.4.0	CP Test: M134.0.0
THALLIUM	Parameter	Result BDL	Det. Limit Units 0.010 mg/L
	ACID DIGESTION OF AQUEOUS AN Analysis Date: 17-		Test:: P131.6.0
INITIAL WEIGH FINAL VOLUME	Parameter T OR VOLUME	Result 40 40	Det. Limit Units mL mL
	SW846-7470A An Analysis Date: 18-: ACID DIGESTION OF AQUEOUS SAMPLES		NELAC:Y Test: M120.1/0
MERCURY	Parameter	Result BDL	Det. Limit Units 0.00020 mg/L
AND SOUTH AND A SOUTH AND A SOUTH	LATION SW846-9010A ERS Analysis Date: 23-1	SEP-01 13:00 Instrument: PREP	Test: P101.4.0
INITIAL WEIGHT		Result 250 250	Det. Limit Units mL
OVANIDE TOTAL	(AUTOMATED) SW846-9012		NELAC: Y

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Sample ID: A566293 MW-A27

Parameter	Result	Det. Limit	Units
CYANIDE	BDL	0.005	mg/L

Sample Comments

Sample was received within 6 hours of sampling.

BDL Below Detection Limit

Sample was received on ice at temperature 6.8 C. All aqueous samples are reported on a wet weight basis unless otherwise noted. Sample chain of custody number 106227.

This Certificate shall not be reproduced, except in full, without the written approval of the lab. The sample results relate only to the analytes of interest tested or to the sample as received by the lab. Heritage Environmental Services, LLC certifies that the test results indicated as NELAC (National Environmental Laboratory Accreditation Conference) accredited (Yes for NELAC) meet all requirements of NELAC and Illinois EPA Part 186 unless otherwise explained or justified as to the the exact nature of the deviations. Heritage Environmental Services, LLC is accredited under Illinois NELAC accreditation number 100401:

Approved: P.K. Sence 0.40

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CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, LLC	13-SEP-01	L	A566292
COMMERCIAL LABORATORY OPERATIONS	Complete	PO Number	
7901 W. MORRIS ST.	25-SEP-01	DP 00151	
INDIANAPOLIS, IN 46231	Printed	Sampled	
(317)243-8304	25-SEP-01	13-SEP-01	17:25

Report To

Bill To

DAN SAMMONS, MFWTP IND. WASTE LABORATORY ACCOUNTS PAYABLE LOUISVILLE AND JEFFERSON COUNTY M.S.D. LOUISVILLE & JEFFE P.O. BOX 740011 PO BOX 740011 LOUISVILLE, KY 40201 LOUISVILLE, KY 40201

ACCOUNTS PAYABLE
LOUISVILLE & JEFFERSON COUNTY M.S.D.
PO BOX 740011
LOUISVILLE, KY 40201

Sample Description

CLIENT ID: MW-B27

MATRIX TYPE: NON-SPECIFIC WATER

WELL NUMBER: MW-B27 Submitter Code :4217

VOLATILE ORGANICS SW846-8240B Analyst: H. WILLIAMS Analysis Date: 19-SEP-01 10:	54 Instrument: GC/MS VOA	Test: 0510	NELAC:N
Parameter	Result	Det. Limit	Units
ACETONE	BDL	20	ug/L
ACROLEIN	BDL	50	ug/L
ACRYLONITRILE	BDL	70	ug/L
BENZENE	BDL	5.0	ug/L
BROMODICHLOROMETHANE	BDL	5.0	ug/L
BROMOFORM	BDL	5.0	ug/L
BROMOMETHANE	BDL	10	ug/L
CARBON DISULFIDE	BDL	5.0	ug/L
CARBON TETRACHLORIDE	BDL	5.0	ug/L
CHLOROBENZENE	BDL	5.0	ug/L
CHLOROETHANE	BDL	10	ug/L
CHLOROFORM	BDL	5.0	ug/L
CHLOROMETHANE	BDL	10	ug/L
DIBROMOCHLOROMETHANE	BDL	5.0	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5.0	ug/L
DICHLORODIFLUOROMETHANE	BDL	5.0	ug/L
1,1-DICHLOROETHANE	BDL	5.0	ug/L
1,2-DICHLOROETHANE	BDL	5.0	ug/L
1,1-DICHLOROETHENE	BDL	5.0	ug/L
1,2-DICHLOROPROPANE	BDL	5.0	ug/L
ETHYLBENZENE	BDL	5.0	ug/L
FLUOROTRICHLOROMETHANE	BDL	5.0	ug/L
2-HEXANONE	BDL	10	ug/L
METHYLENE CHLORIDE	BDL BDL	5.0	ug/L
METHYL ETHYL KETONE	BDL	10	ug/L
4-METHYL-2-PENTANONE	BDL	10	ug/L
STYRENE	BDL	5.0	ug/L
1,1,2,2-TETRACHLOROETHANE	BDLV	5.0	ug/L

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Parameter	Result	Det. Limit	Units
TETRACHLOROETHENE	BDL	5.0	ug/L
TETRAHYDROFURAN	BDL	25	ug/L
TOLUENE	BDL	5.0	ug/L
1,2-DICHLOROETHENE (TOTAL)	BDL	5.0	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5.0	ug/L
1,1,1-TRICHLOROETHANE	1000L 00 000000 0 1 1 1 1 1 1 1	5.0	ug/L
1,1,2-TRICHLOROETHANE	BDL	5.0	ug/L
TRICHLOROETHENE	BDL	5.0	ug/L
VINYL ACETATE	BDL	10	ug/L
VINYL_CHLORIDE	l-writing	10	ug/L
XYLENE (TOTAL)	BDL	5.0	ug/L
SURROGATE RECOVERY			
DICHLOROETHANE-D4	120	La armynaaan y	% Rec
TOLUENE-D8			% Rec
BROMOFLUOROBENZENE	102	<u> </u>	% Rec
Prep Method SW846-5030B Purge and Trap			

GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTI Analyst: V. BROWN Analysis Date: 18-SEP-01	ON SW846-3510C Instrument: PREP	Test: P233.4.0	
Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	970		mL
TANAL VOLUME	1		us ia (Cikidhiban kanati ta

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACT	FRACTIONS) SW846-8270	C	NELAC:Y
Analyst: L. CALLAHAN Analysis Date: 21-SEP-		SVOA Test: 0505	.3.0
Prep: GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION S			
Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	10	ug/L
ACENAPHTHYLENE	BDL	10	ug/L
ANTHRACENE	BDL	10	ug/L
BENZ(A)ANTHRACENE	BDL	10	ug/L
BENZO(A)PYRENE	BDL	10	ug/L
BENZO(B)FLUORANTHENE	BDL	10	ug/L
BENZO(G,H,I)PERYLENE	BDL	10	ug/L
BENZO(K)FLUORANTHENE	BDL	10	ug/L
BENZYL ALCOHOL	BDL	10	ug/L
BENZYLBUTYLPHTHALATE	BDL	10	ug/L
BIS(2-CHLOROETHOXY)METHANE	BDL	10	ug/L
BIS(2-CHLOROETHYL)ETHER	BDL	10	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	BDL	10	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	10	ug/L
4-BROMOPHENYLPHENYLETHER	BDL	10	ug/L
CARBAZOLE	BDL	10	ug/L
4-CHLOROANILINE	BDL	10	ug/L
2-CHLORONAPHTHALENE	BDL	10	ug/L
4-CHLOROPHENYLPHENYLETHER	BDL	10	ug/L
CHRYSENE	BDL	10	ug/L
DIBENZ(A,H)ANTHRACENE	BDL	10	ug/L
DIBENZOFURAN	BDL	10	ug/L
1,2-DICHLOROBENZENE	BDL	10	ug/L

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MEKITAGE ENVIKUNMENTAL SERVICES, LLC	Jamp	ie in: Wood	LJL IIN DLI
Parameter	Result	Det. Limit	Units
1,3-DICHLOROBENZENE	BDL	10	ug/L
1,4-DICHLOROBENZENE	BDL	10	ug/L
3,3'-DICHLOROBENZIDINE	BDL	20	ug/L
DIETHYLPHTHALATE	BDL	10	
DIMETHYLPHTHALATE	BDL	10	ug/L
DI-N-BUTYLPHTHALATE	BDL	10	
DINITROBENZENES	BDL	51	ug/L
TO AMBINITARION OF THE SAME AND ASSESSED AND ASSESSED ASSESSED.	BDL	10	
	BDL		
2,6-DINITROTOLUENE	BDL	10	ug/L
DI-N-OCTYLPHTHALATE		10	ug/L
FLUORANTHENE	BDL	10	ug/L
FLUORENE	BDL	10	ug/L
HEXACHLOROBENZENE	BDL	10	ug/L
HEXACHLOROBUTADIENE	BOL	10	ug/L
HEXACHLOROCYCLOPENTADIENE	BDL	10	ug/L
HEXACHLOROETHANE	BDL	10	ug/L
INDENO(1,2,3-CD)PYRENE	BDL ·	10	ug/L
ISOPHORONE	BDL	10	ug/L
2-METHYLNAPHTHALENE	BDL	10	ug/L
NAPHTHALENE	BDL	10	ug/L
2-NITROANILINE	BDL	51	ug/L
3-NITROANILINE	BDL	51	ug/L
4-NITROANILINE	BDL	51	ug/L
NITROBENZENE	BDL	10	
N-NITROSO-DIPHENYLAMINE	BDL	10	ug/L
N-NITROSO-DI-N-PROPYLAMINE	BDL		ug/L
PHENANTHRENE	BDL	10	ug/L
2-PICOLINE	BDL	51	ug/L
PYRENE	BDL	10	
PYRIDINE	BDL		ug/L
			ug/L
1,2,4,5-TETRACHLOROBENZENE	BDL	10	ug/L
TOLUENEDIAMINE	BDL	51	ug/L
1,2,4-TRICHLOROBENZENE	BDL	10	ug/L
BENZOIC ACID	BDL	51	ug/L
4-CHLORO-3-METHYLPHENOL	BDL	10	ug/L
2-CHLOROPHENOL	BDL	10	ug/L
2,4-DICHLOROPHENOL	BDL	10	ug/L
2,4-DIMETHYLPHENOL	BDL		ug/L
4,6-DINITRO-2-METHYLPHENOL	BDL	51	ug/L
2,4-DINITROPHENOL	BDL	51	ug/L
2-METHYLPHENOL	BDL	10	ug/L
4-METHYLPHENOL	BDL	10	ug/L
2-NITROPHENOL	BDL	10	ug/L
4-NITROPHENOL	BDL	51	ug/L
DENTACH ORODUCIO		51	ug/L
PHENOL	BDL	10	ug/L
1 2 4 5-TETRACHIORORENZENE	BDL	10	ug/L
2,4,5-TRICHLOROPHENOL	BDL		ug/L
	BDL	10	ug/L
kandangan paranggalaman pelaman anargi karangan ang arawa ang arawa ana sa mengangan ang ang ang ang ang ang a	kajāja grassa kalekte, da 🕏		
SURROGATE RECOVERY			
2-FLUOROPHENOL	52		% Rec
C-I LOUNUI IILIIUL	. 32		10 NEC

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 - a. Heritage performed analysis or work for the Client.
 - b. of negligent acts, errors or omissions of the Client, or
 - c. of Client's failure to perform its obligations under this Agreement

Sample ID: A566292 MW-B27

Parameter	Result	Det. Limit	Units
PHENOL-D5	34		% Rec
NITROBENZENE-D5		alastas (12.55)	0/ Dag
2-FLUOROBIPHENYL	76		% Rec
2,4,6-TRIBROMOPHENOL	78		% Rec
TERPHENYL-D14	57		% Rec

GC SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C Analyst: S. BRYAN Analysis Date: 17-SEP-01 Instrument: PREP Test: P233.1.0				
Parameter	Result	Det. Limit	Units	
INITIAL WEIGHT OR VOLUME	980		mL	
ETNAL VOLUME			ml	

Parameter	Result	Det. Limit	Units
ALPHA-BHC	BDL	0.05	ug/L
BETA-BHC	BDL	0.05	ug/L
DELTA-BHC	BDL	0.05	ug/L
GAMMA-BHC (LINDANE)	BDL	0.05	ug/L
HEPTACHLOR	BDL	0.05	ug/L
ALDRIN.	BDL	0.05	ug/L
HEPTACHLOR EPOXIDE	BDL	0.05	ug/L
INDOSULFAN I	BDL	0.05	ug/L
DIELDRIN	BDL	0.1	ug/L
1,4'-DDE	BDL	0.1	ug/L
ENDRIN	BDL	0.1	ug/L
NDOSULFAN II	BDL	0.1	ug/L
1,4'-DDD	BDL	0.1	ug/L
NDOSULFAN SULFATE	BDL	0.1	ug/L
1,4'-DDT	BDL	0.1	ug/L
1ETHOXYCHLOR	BDL	0.5	ug/L
NDRIN ALDEHYDE	BDL	0.1	ug/L
NDRIN KETONE	BDL	0.1	ug/L
ALPHA-CHLORDANE	BDL	0.5	ug/L
SAMMA-CHLORDANE	BDL	0.5	ug/L
TOXAPHENE	BDL		ug/L
CB AROCLOR 1016	BDL	0.5	ug/L
PCB AROCLOR 1221	BDL	0.5	ug/L
PCB AROCLOR 1232	BDL	0.5	ug/L
CB AROCLOR 1242	BDL	0.5	ug/L
CB AROCLOR 1248	BDL	0.5	ug/L
CB AROCLOR 1254	BDL		ug/L
CB AROCLOR 1260	BDL		ug/L

FAA OR ICP ACID DIGESTIC Analyst: M. HALL	N OF AQUEOUS SAMPLES S Analysis Date: 18-SEP-01 10:00	 200 000000000 (200 000 000 000 000 000 0	Test: P13(0.4.0

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RITAGE ENVIRONMENTAL SERVI Parameter NITIAL WEIGHT OR VOLUME INAL WEIGHT OR VOLUME	50	Det. Limit	Units ML ML
	alvsis Date: 19-SEP-01 02:51 Instrument: ICP	Test: M101	
rep: FAA OR ICP ACID DIGESTION OF AC Parameter \LUMINUM	Result 0.065	Det. Limit 0.050	Units mg/L
ANTIMONY ICP SW846-6010B	alysis Date: 19-SEP-01 02:51 Instrument: ICP	Test: M102	NELAC:Y ≥.3.0
rep: FAA OR ICP ACID DIGESTION OF AC Parameter	DUEOUS SAMPLES SW846-3005A P.130.4.0 Result BDL	Det. Limit 0.010	Units mg/L
ANTIMONY BARIUM ICP SW846-6010B Analyst: J. KRAMER An	alysis Date: 19-SEP-01 02:51 Instrument: ICP	Test: M10	NELAC:Y
BARIUM ICP SW846-6010B	alysis Date: 19-SEP-01 02:51 Instrument: ICP QUEOUS SAMPLES SW846-3005A P130:4:0 Result 0.012	Det. Limit	
BARIUM ICP SW846-6010B Analyst: J. KRAMER Analyst:	Result 0.012 Dalysis Date: 19-SEP-01 02:51 Instrument: ICP	Det. Limit 0.010 Test:: M10	Units mg/L NELAC:Y
BARIUM ICP SW846-6010B Analyst: J. KRAMER Analyst:	Result 0.012	Det. Limit 0.010	Units mg/L NELAC:Y 5.3.0 Units mg/L
BARIUM ICP SW846-6010B Analyst: J. KRAMER Analyst: J. KRAMER Analyst: J. KRAMER BARIUM BERYLLIUM ICP SW846-6010B Analyst: J. KRAMER Analyst: J.	Result 0.012 malysis Date: 19-SEP-01 02:51 Instrument: ICP QUEOUS SAMPLES SW846-3005A P130.4.0 Result	Det. Limit 0.010 Test:: M10 Det. Limit 0.0040	Units mg/L NELAC:) 5.3.0 Units mg/L NELAC: 08.3.0

Parameter	BDL	0.0050	mg/L
CADMIUM			NELAC:Y
CALCIUM ICP SW846-6010B Analysis Date: 19-SEP-01 02:51 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P	Instrument: ICP	Test: M109	.3.0
Parameter	Result 110	Det. Limit 0.10	mg/L
CALCIUM			NELAC:Y
CHROMIUM ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP-01 02:51 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P	Instrument: ICP 130.4.0	Test: M110	
Parameter CHROMIUM	Result 0.014	Det. Limit 0.010	Units mg/L
			NELAC:Y
COBALT ICP SW846-6010B Analysis Date: 19-SEP-01 02:51 Analysis: J. KRAMER Analysis Date: 19-SEP-01 02:51	Instrument: ICP 130.4.0	Test: M11	1.3.0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P	The state of the s	Det. Limit	Units

BDL

COBALT

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ERITAGE ENVIRONMENTAL SERVICES, LLC		Sample ID: A566292 MW-B2
COPPER ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW84	P-01 02:51 Instrument: ICP 6-3005A P130:4.0	NELAC:Y Test: M112.3.0
Parameter COPPER	Result BDL	Det. Limit Units 0.020 mg/L
IRON ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW84	-01 02:51 Instrument: ICP 6-3005A P130.4.0	NELAC:Y Test: M115.3.0
Parameter [RON	Result 2.2	Det. Limit Units 0.025 mg/L
MAGNESIUM ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW84	-01 02:51 Instrument: ICP 6-3005A P130:4.0	NELAC:Y Test: M118.3.0
Parameter MAGNESIUM	Result 38.	Det. Limit Units 0.10 mg/L
MANGANESE ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW84		NELAC:Y Test: M119.3.0
Parameter MANGANESE	Result 0.25	Det. Limit Units 0.010 mg/L
NICKEL ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW844		.coccorocioco:
Parameter NICKEL	Result 0.015	Det. Limit Units 0.010 mg/L
POTASSIUM ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW844		NELAC:Y Test: M126.3.0
Parameter POTASSIUM	Result 2.8	Det. Limit Units 0.10 mg/L
ILVER ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP rep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846	-01 02:51	NELAC:Y Test: M130.3:0
Parameter SILVER	Result BDL	Det. Limit Units 0.010 mg/L
ODIUM ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP rep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846		NELAC:Y Test: M131.3.0
Parameter ODIUM	Result 40.	Det. Limit Units 0.10 mg/L
ANADIUM ICP SW846-6010B		NELAC:N

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VANADIUM	Parameter	Result BDL	Det. Limit Units 0.010 mg/L
	ER Analysis Date:	.19-SEP-01 02:51	NELAC:Y Test: M139.3:0
ZINC	Parameter	Result BDL	Det. Limit Units 0.020 mg/L
Analyst: D. DRABE	ICP SW846-6010B ENSTOIT Analysis Date: ACID DIGESTION OF AQUEOUS SAMPLE	19-SEP-01 16:43 Instrument: TRACE IC S SW846-3005A P130.4.0	NELAC:Y P Test: M103.0.0
ARSENIC	Parameter	Result BDL	Det. Limit Units 0.0050 mg/L
Analyst: D. DRABE		19-SEP-01 16:43 Instrument: TRACE IC S SW846-3005A P130.410	NELAC:Y P Test: M116.0.0
LEAD	Parameter	Result BDL	Det. Limit Units 0.0050 mg/L
Analyst: D. DRABE	E ICP SW846-6010B NSTOTT Analysis Date: NCID DIGESTION OF AQUEOUS SAMPLE	19-SEP-01 16:43 Instrument: TRACE IC \$ SW846-3005A P130:4.0	NELAC:Y P Test: M128,0,0
SELENIUM	Parameter	Result BDL	Det. Limit Units 0.0050 mg/L
Analyst: D. DRABE	E ICP SW846-6010B NSTOTT Analysis Date: CID DIGESTION OF AQUEOUS SAMPLE	19-SEP-01-16:43 Instrument: TRACE IC S SW846-3005A P130.4.0	NELAC:Y P Test: M134.0.0
Analyst: D. DRABE Prep: FAA OR ICP A	NSTOTT Analysis Date:	19-SEP-01:16:43 Instrument: TRACE IC	
Analyst: D. DRABE Prep: FAA OR JCP A THALLIUM MERCURY CVAA	ACID DIGESTION OF AQUEOUS SAMPLE Parameter ACID DIGESTION OF AQUEOUS SAMPLE	19-SEP-01-16:43 Instrument: TRACE IC S SW846-3005A P130.4.0 Result BDL DUS SAMPLES SW846-7470A	P Test: M134.0.0 Det. Limit Units 0.010 mg/L
Analyst: D. DRABE Prep: FAA OR ICP A THALLIUM MERCURY CVAA Analyst: J. O'BRY	ACID DIGESTION OF AQUEOUS SAMPLE Parameter ACID DIGESTION OF AQUEOUS SAMPLE Parameter ACID DIGESTION OF AQUEOUS SAMPLE Analysis Date: Parameter	19-SEP-01:16:43 Instrument: TRACE IC S SW846-3005A:P130.4:0 Result BDL	P Test: M134.0.0 Det. Limit Units
Analyst: D. DRABE Prep: FAA OR JCP A THALLIUM MERCURY CVAA Analyst: J. O'BRY INITIAL WEIGH FINAL VOLUME MERCURY CVAA Analyst: J. O'BRY	ACID DIGESTION OF AQUEOUS SAMPLE Parameter ACID DIGESTION OF AQUEOUS SAMPLE Parameter ACID DIGESTION OF AQUEOUS SAMPLE AN Analysis Date: Parameter T OR VOLUME SW846-7470A	19-SEP-01-16:43 Instrument: TRACE IC S SW846-3005A P130.4.0 Result BDL DUS SAMPLES SW846-7470A 17-SEP-01-12:30 Instrument: PREP Result 40 40 40 18-SEP-01-12:39 Instrument: CVAA	P Test: M134.0.0 Det. Limit Units 0.010 mg/L Test: P131.6.0 Det. Limit Units mL
Analyst: D. DRABE Prep: FAA OR JCP A THALLIUM MERCURY CVAA Analyst: J. O'BRY INITIAL WEIGH INAL VOLUME MERCURY CVAA Analyst: J. O'BRY TERCURY CVAA Analyst: J. O'BRY Trep: MERCURY CVAA	ACID DIGESTION OF AQUEOUS SAMPLE Parameter ACID DIGESTION OF AQUEOUS SAMPLE ACID DIGESTION OF AQUEOUS SAMPLE AN Analysis Date: Parameter T OR VOLUME SW846-7470A Analysis Date:	19-SEP-01-16:43 Instrument: TRACE IC S SW846-3005A P130.4.0 Result BDL DUS SAMPLES SW846-7470A 17-SEP-01-12:30 Instrument: PREP Result 40 40 40 18-SEP-01-12:39 Instrument: CVAA	P Test: M134.0.0 Det. Limit Units 0.010 mg/L Test: P131.6.0 Det. Limit Units mL mL mL NELAC: Y
Analyst: D. DRABE Prep: FAA OR JCP A THALLIUM MERCURY CVAA Analyst: J. O'BRY INITIAL WEIGH FINAL VOLUME MERCURY CVAA Analyst: J. O'BRY Prep: MERCURY CVAA MERCURY ACID DIGESTION OF AQUEOUS SAMPLE Parameter ACID DIGESTION OF AQUEOUS SAMPLE AN Analysis Date: Parameter T OR VOLUME SW846-7470A AN Analysis Date: ACID DIGESTION OF AQUEOUS SAMPLE Parameter LLATION SW846-9010A	19-SEP-01 16:43 Instrument: TRACE IC S SW846-3005A P130.4:0 Result BDL OUS SAMPLES SW846-7470A 17-SEP-01 12:30 Instrument: PREP Result 40 40 18-SEP-01 12:39 Instrument: CVAA LES SW846-7470A P131.6.0 Result BDL	P Test: M134.0.0 Det. Limit Units 0.010 mg/L Test: P131.6.0 Det. Limit Units mL mL NELAC: Y Test: M120.1.0	

Prep: CYANIDE DISTILLATION SW846-9010A P101.4.0

CYANIDE, TOTAL (AUTOMATED) SW846-9012
Analyst: B. FOX Analysis Date: 24-SEP-01 08:45

Instrument: AUTO-ANALYZER Test: G101.4.0

NELAC:Y

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Sample ID: A566292 MW-B27

Parameter Result Det. Limit Units BDL 0.005 mg/L

Sample Comments

Sample was received within 6 hours of sampling.

BDL Below Detection Limit

Sample was received on ice at temperature 6.8 C. All aqueous samples are reported on a wet weight basis unless otherwise noted. Sample chain of custody number 106227.

This Certificate shall not be reproduced, except in full, without the written approval of the lab. The sample results relate only to the analytes of interest tested or to the sample as received by the lab. Heritage Environmental Services, LLC certifies that the test results indicated as NELAC (National Environmental Laboratory Accreditation Conference) accredited (Yes for NELAC) meet all requirements of NELAC and Illinois EPA Part 186 unless otherwise explained or justified as to the the exact nature of the deviations. Heritage Environmental Services, LLC is accredited under Illinois NELAC accreditation number 100401. Arizona License Number AZ0627.

Approved: P.C. Seuce OA

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CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, LLC	13-SEP-01		A566289
COMMERCIAL LABORATORY OPERATIONS	Complete	PO N	lumber
7901 W. MORRIS ST.	25-SEP-01	DP 00151	
INDIANAPOLIS, IN 46231	Printed	Samp	oled
(317)243-8304	25-SEP-01	13-SEP-0	1 12:00

Report To

Bill To

DAN SAMMONS, MFWTP IND. WASTE LABORATORY ACCOUNTS PAYABLE LOUISVILLE AND JEFFERSON COUNTY M.S.D. LOUISVILLE & JEFFE P.O. BOX 740011 PO BOX 740011 LOUISVILLE, KY 40201 LOUISVILLE, KY 40201

ACCOUNTS PAYABLE LOUISVILLE & JEFFERSON COUNTY M.S.D. PO BOX 740011 LOUISVILLE, KY 40201

Sample Description

CLIENT ID: FB@MW-0527

MATRIX TYPE: NON-SPECIFIC WATER

WELL NUMBER: FB@MW-0527 Submitter Code :4217

Analyst: H. WILLIAMS Analysis Date: 19	9-SEP-01 09:07 Instrument: GC/MS VO/	Test: 0510.3.0	
Parameter	Result		nits
ACETONE	BDL	20 ug/	
ACROLEIN	BDL	50 ug/	
ACRYLONITRILE	BDL	70 ug/	
BENZENE	BDL	5.0 ug/	
BROMODICHLOROMETHANE	BDL	5.0 ug/	
BROMOFORM	BDL	5.0 ug/	
BROMOMETHANE	BDL	10 ug/	
CARBON DISULFIDE	BDL	5.0 ug/	'L
CARBON TETRACHLORIDE	BDL	5.0 ug/	
CHLOROBENZENE	BDL	5.0 ug/	
CHLOROETHANE	BDL	10 ug/	
CHLOROFORM	BDL	5.0 ug/	
CHLOROMETHANE	BDL	10 ug/	
DIBROMOCHLOROMETHANE	BDL	5.0 ug/	
CIS-1,3-DICHLOROPROPENÉ	BDL	5.0 ug/	
DICHLORODIFLUOROMETHANE	BDL	5.0 ug/	
1,1-DICHLOROETHANE	BDL	5.0 ug/	
1,2-DICHLOROETHANE	A TRANSPORT WIBDLE AND THE CONNE	5.0 ug/	
1,1-DICHLOROETHENE	BDL	5.0 ug/	
1,2-DICHLOROPROPANE	BDL	5.0 ug/	
ETHYLBENZENE	BDL	5.0 ug/	
FLUOROTRICHLOROMETHANE	BDL BDL	5.0 ug/	
2-HEXANONE	BDL	10 ug/	
METHYLENE CHLORIDE	BDL	5.0 ug/	
METHYL ETHYL KETONE	BDL	10 ug/	
-METHYL-2-PENTANONE	Marwala (L. BDL) (A. 1. A.	10 ug/	
STYRENE	BDL	5.0 ug/	L
1,1,2,2-TETRACHLOROETHANE	BDL	5.0 ug/	<u> Lagrania</u>

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Sample ID: A566289 FB@MW-0527

Parameter	Result	Det. Limit	Units
TETRACHLOROETHENE	BDL	5.0	ug/L
TETRAHYDROFURAN	BDL	25	ug/L
TOLUENE	BDL	5.0	ug/L
1,2-DICHLOROETHENE (TOTAL)	BDL	5.0	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5.0	ug/L
1,1,1-TRICHLOROETHANE	DUL	5.0	ug/L
1,1,2-TRICHLOROETHANE	BDL	5.0	ug/L
TRICHLOROETHENE	BDL	5.0	ug/L
VINYL ACETATE	BDL	10	ug/L
VINYL CHLORIDE	BDL	10	ug/L
XYLENE (TOTAL)	BDL	5.0	ug/L
SURROGATE RECOVERY			
DICHLOROETHANE-D4 TOLUENE-D8	113 112	· rama mant m	% Rec % Rec
BROMOFLUOROBENZENE	103		% Rec
Prep Method SW846-5030B Purge and Trap			

GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTI Analyst: V. BROWN Analysis Date: 18-SEP-01	ON SW846-3510C Instrument: PREP	Test: P233.4.0)
Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	990		mL
FINAL VOLUME			mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRA Analyst: L. CALLAHAN Analysis Date: 21-SEP-01 19: Prep: GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3	30 Instrument: GC/MS SVOA	Test: 050	NELAC:Y 5.3.0
Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	10	ug/L
ACENAPHTHYLENE	BDL	10	ug/L
ANTHRACENE	BDL	10	ug/L
BENZ(A)ANTHRACENE	BDL	10	ug/L
BENZO(A) PYRENE	BDL	10	ug/L
BENZO(B)FLUORANTHENE	BDL	10	ug/L
BENZO(G,H,I)PERYLENE	BDL	10	ug/L
BENZO(K)FLUORANTHENE	BDL BDL	10	ug/L
BENZYL ALCOHOL	BDL	10	ug/L
BENZYLBUTYLPHTHALATE	BDL	10	ug/L
BIS(2-CHLOROETHOXY)METHANE	BDL	10	ug/L
BIS(2-CHLOROETHYL)ÉTHER	vi BDL	10	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	BDL	10	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	A cylBDL with a college with the ci	10	ug/L
4-BROMOPHENYLPHENYLETHER	BDL	10	ug/L
CARBAZOLE	BDL	10	ug/L
4-CHLOROANILINE	BDL	10	ug/L
2-CHLORONAPHTHALENE	BDL	10	ug/L
4-CHLOROPHENYLPHENYLETHER	BDL	10	ug/L
CHRYSENE	BDL	10	ug/L
DIBENZ(A,H)ANTHRACENE	BDL	10	ug/L
DIBENZOFURAN	BDL	10	ug/L
1,2-DICHLOROBENZENE	BDL	10	ug/L

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HERITAGE ENVIRONMENTAL SERVICES, LLC		Sample 10:	: A566289	FB@MW-0527
Parameter	Result	[[Det. Limit	Units
1,3-DICHLOROBENZENE	BDL		10	ug/L
1,4-DICHLOROBENZENE	BDL		10	ug/L
3,3'-DICHLOROBENZIDINE	BDL		20	ug/L
DIETHYLPHTHALATE	BDL		10	
DIMETHYLPHTHALATE	BDL		10	ug/L
DI-N-BUTYLPHTHALATE	BDL		$\overline{10}$	ug/L
DINITROBENZENES	BDL		50	ug/L
2,4-DINITROTOLUENE	BDL	- 1. 700000	10	
2,6-DINITROTOLUENE	BDL		10	ug/L
DI-N-OCTYLPHTHALATE	BDL		10	
FLUORANTHENE	BDL		10	ug/L
FLUORENE	BDL		10	ug/L
HEXACHLOROBENZENE	BDL		10	ug/L ug/L
HEXACHLOROBUTADIENE	BDL		10	ug/L ug/L
HEXACHLOROCYCLOPENTADIENE	BDL	÷		
HEXACHLOROETHANE	BDL		10 10	ug/L
INDENO(1,2,3-CD)PYRENE	BDL		10	ug/L
ISOPHORONE	BDL		10	ug/L
2-METHYLNAPHTHALENE	BDL			ug/L
NAPHTHALENE	BDL	v	10	ug/L
	BDL		10	ug/L
2-NITROANILINE			50	ug/L
3-NITROANILINE	BDL		50	ug/L
4-NITROANILINE	BDL	.4	50	ug/L
NITROBENZENE	BDL		10	ug/L
N-NITROSO-DIPHENYLAMINE	BDL		10	ug/L
N-NITROSO-DI-N-PROPYLAMINE	BDL		10	ug/L
PHENANTHRENE	BDL BDL	ri a (888) (888 - 189	10 50	ug/L
2-PICOLINE PYRENE	BDL		10	ug/L
PYRIDINE	BDL		50	ug/L
1,2,4,5-TETRACHLOROBENZENE	BDL		10	ug/L
TOLUENEDIAMINE	BDL	z	50	ug/L
1,2,4-TRICHLOROBENZENE	BDL	F Lee Lees I N To Lee	10	ug/L
BENZOIC ACID	BDL	F 1 ASSET 6565 NO	50	ug/L
4-CHLORO-3-METHYLPHENOL	BDL	i. li svet keelike		ug/L
2-CHLOROPHENOL	BDL	n all evelywich	10 10	ug/L
2,4-DICHLOROPHENOL	BDL	· · · · · · · · · · · · · · · · · · ·		ug/L
2,4-DICHEOROPHENOL	BDL		10 10	ug/L
4,6-DINITRO-2-METHYLPHENOL		21.16.2016000000000000000000000000000000	10 50	ug/L
	BDL BDL			ug/L
2.4-DINITROPHENOL 2-METHYLPHENOL	BDL		50	ug/L
4-METHYLPHENOL	BDL	e transmi	10 10	ug/L
2-NITROPHENOL	BDL	- June Agr		ug/L
4-NITROPHENOL	BDL	ing Algebra	10 50	ug/L
				ug/L
PENTACHLOROPHENOL	BDL BDL		50	ug/L
PHENOL 1 2 4 5 TETRACHI ODODENZENE				ug/L
1,2,4,5-TETRACHLOROBENZENE	BDL BDL		10 50	ug/L
2,4,5-TRICHLOROPHENOL	DUL		50	ug/L
2,4,6-TRICHLOROPHENOL	BDL	0.0 1 - 2.0070000 000	10	ug/L
CUDDOCATE DECOVEDY				
SURROGATE RECOVERY		Market Maria Mari	-1,3 600 3 6006.60	trougadan, erake yre na
(1988) mangkalahan kalangga kanangga palangga pangga kanang kanang kanang kanang kanang kanang kanang kanang k	F2			0/ Do o
2-FLUOROPHENOL	52		l	% Rec

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Sample ID: A566289 FB0MW-0527

Parameter	Result	Det. Limit	Units
PHENOL-D5	35		% Rec
NITROBENZENE=D5	91		
2-FLUOROBIPHENYL	75		% Rec
2,4,6-TRIBROMOPHENOL	79		% Rec
TERPHENYL-D14	47		% Rec

GC SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION Analyst: S. BRYAN Analysis Date: 17-SEP-01	SW846-3510C Instrument: PREP	Test: P233.1.()
Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	980		mL
	10		mL

PCB/PESTICIDE SCAN GC: ECD SW846-8081 Analyst: T. PINCKERT Analysis Date: 21-S Prep: GC SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION S	tura turanarenaren 19a - eta burrarria ira eta barrarriarriarriarria eta burrarriarria ira burrarriarria bilita	Test: 030	NELAC:Y 5.1.0
Parameter	W046-55 TOU R255. T. U	Det. Limit	Units
ALPHA-BHC	BDL	0.05	ug/L
BETA-BHC	BDL	0.05	ug/L
DELTA-BHC	BDL	0.05	ug/L
GAMMA-BHC (LINDANE)	BDL	0.05	ug/L
HEPTACHLOR	BDL	0.05	ug/L
ALDRIN	BOL	0.05	ug/L
HEPTACHLOR EPOXIDE	BDL	0.05	ug/L
ENDOSULFAN I	BDL	0.05	ug/L
DIELDRIN	BDL	0.1	ug/L
4,4'-DDE	BDL	0.1	ug/L
ENDRIN	BDL	0.1	ug/L
ENDOSULFAN II	BDL	0.1	ug/L
1,4′-DDD	BDL	0.1	ug/L
ENDOSULFAN SULFATE	BDL	0.1	ug/L
4,4'-DDT	BDL	0.1	ug/L
METHOXYCHLOR	BDL	0.5	ug/L
ENDRIN ALDEHYDE	BDL	0.1	ug/L
ENDRIN KETONE	BDL	0.1	ug/L
ALPHA-CHLORDANE	BDL	0.5	ug/L
GAMMA-CHLORDANE	BDL	0.5	ug/L
TOXAPHENE	BDL		ug/L
PCB AROCLOR 1016	BDL	0.5	ug/L
PCB AROCLOR 1221	BDL	0.5	ug/L
PCB AROCLOR 1232	BDL	0.5	ug/L
PCB AROCLOR 1242	BDL BDL	0.5	ug/L
PCB AROCLOR 1248		0.5	ug/L
PCB AROCLOR 1254	BDL BDL		ug/L
PCB AROCLOR 1260	The DULY THE PARTY OF THE PARTY	1	ug/L
URROGATE RECOVERY			
		arver i favor - samer Africa	a an aranga sa mili bili kiliki
DECACHLOROBIPHENYL (DCB)	114.0		% Rec

FAA OR ICP ACID	1000,000 oo	UEOUS SAMPLES Date: 18-SEP-01-10:	000000 6 11 601 1160 1 1 100 1 100	PREP	Test: P130.4.0

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HERITAGE ENVIRONMENTAL S	ERVI	CES.	LLC
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Sample ID: A566289 FB0MW-0527

HERITAGE ENVIRONMENTAL SERVICES, LLC	Samp	le ID: A566289 F	FB@MW-0527
Parameter INITIAL WEIGHT OR VOLUME FINAL WEIGHT OR VOLUME	Result 50 50	Det. Limit	Units ML ML
ALUMINUM ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP-0 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-			NELAC:Y
Parameter ALUMINUM	Result BDL	Det. Limit 0.050	Units mg/L
ANTIMONY ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP-C Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-		869,4411 TT 16666 WAL 66664 (680) 10 000000-	555555 7525 575 177 177 1
Parameter ANTIMONY	Result BDL	Det. Limit 0.010	Units mg/L
BARIUM ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP-C Prep: FAA OR 1CP ACID DIGESTION OF AQUEOUS SAMPLES SW846-	J10000111111111111111 ASIIIII 1901 - PLILA LII 190000000 N.I 1100000019111		NELAC:Y
Parameter BARIUM	Result BDL	Det. Limit 0.010	Units mg/L
BERYLLIUM ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP-0 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-		Test: M 105.	NELAC:Y
Parameter BERYLLIUM	Result BDL	Det. Limit 0.0040	Units mg/L
CADMIUM ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP-0 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-	1 02:41 Instrument: ICP 3005A P130:4:0	Test: M 108.	NELAC:Y 3.0
Parameter CADMIUM	Result BDL	Det. Limit 0.0050	Units mg/L
CALCIUM ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP-0 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-		Test: M109.	NELAC:Y
Parameter CALCIUM	Result 0.13	Det. Limit 0.10	Units mg/L
CHROMIUM ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP-0 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-	20) St. 1 N. 1 N. 2000 St. 1 S		NELAC:Y 3.0
Parameter CHROMIUM	Result BDL	Det. Limit 0.010	Units mg/L
CODALT YOU SHOAS SOLOD			NELAC:Y
COBALT ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP-0 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-1	100 K 10	Test: M111	3.0

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 - bill of nepligent acts, errors or omissions of the Client; or
 - a of Client's failure to perform its obligations under this Agreement.

	IIIDC	ple_ID: A566289	1 1001 1007 1 1 1 1
COPPER ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP	01 02:41 Instrument: ICP	Test: M11	NELAC:Y 2.3.0
rep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846	-3005A P130.4.0		
Parameter COPPER	Result BDL	Det. Limit 0.020	Units mg/L
RON ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP- Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846	01 02:41 Instrument: ICP -3005A P130.4:0	Test: M11	809, 200000000, ay ay basay 190
Parameter RON	Result BDL	Det. Limit 0.025	Units
MAGNESIUM ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP- Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846	01 02:41	Test: M11	NELAC:Y 8.3.0
Parameter MAGNESIUM	Result BDL	Det. Limit 0.10	Units mg/L
IANGANESE ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP- rep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846	01 02:41	Test: M13'	NELAC:Y 9.3.0
Parameter MANGANESE	Result BDL	Det. Limit 0.010	
IICKEL ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP- rep: FAA OR JCP ACID DIGESTION OF AQUEOUS SAMPLES SW846	01 02:41 Instrument: ICP	Test: M12	NELAC:Y ≥.3.0
Parameter NICKEL	Result BDL	Det. Limit 0.010	Units mg/L
OTASSIUM ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP- rep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846	01 02:41 Instrument: ICP	Test: M120	NELAC:Y
Parameter POTASSIUM	Result BDL	Det. Limit 0.10	
ILVER ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP- rep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846	01 02:41	Test: M130	NELAC:Y
Parameter ILVER	Result BDL	Det. Limit 0.010	Units mg/L
ODIUM ICP SW846-6010B Analyst: J. KRAMER Analysis Date: 19-SEP- rep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846		Tëst: M131	NELAC:Y
Parameter	Result BDL	Det. Limit 0.10	Units mg/L
ODIUM	DUL		

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 - b. of negligent acts, errors or omissions of the Chent: or
 - c. of Client's failure to perform its obligations under this Agreement.

/ANADIUM	I BIII	0 010 ma/i
	BDL	0.010 mg/L
INC ICP SW846-6010B Analyst: J. KRAMER Analysis Decrep: FAA OR ICP ACID DIGESTION OF AQUEOUS SA	ate: 19-SEP-01 02:41 Instrument: ICP AMPLES SW846-3005A P130:4.0	NELAC: Test: M139.3.0
Parameter ZINC	Result BDL	Det. Limit Units 0.020 mg/L
RSENIC TRACE ICP SW846-6010B Analyst: D. DRABENSTOTT Analysis Danelysis	ate: 19-SEP-01 16:30 Instrument: TRACE ICA	NELAC: Test: M103.0.0
Parameter ARSENIC	Result BDL	Det. Limit Units 0.0050 mg/L
EAD TRACE ICP SW846-6010B Analyst: D. DRABENSTOTT Analysis Da rep: FAA OR ICP ACID DIGESTION OF AQUEOUS SA	ate: 19-SEP-01:16:30 Instrument: TRACE ICF AMPLES SW846-3005A:P130.4.0	NELAC: Test: M116.0.0
Parameter .	Result BDL	Det. Limit Units 0.0050 mg/L
ELENIUM TRACE ICP SW846-6010B Analyst: D. DRABENSTOTT Analysis Decrep: FAA OR ICP ACID DIGESTION OF AQUEOUS SA	ate: 19-SEP-01 16:30 Instrument: TRACE ICF AMPLES SW846-3005A P130.4.0	NELAC: Test: M128.0.0
Parameter ELENIUM	Result BDL	Det. Limit Units 0.0050 mg/L
HALLIUM TRACE ICP SW846-6010B Analyst: D. DRABENSTOTT Analysis De rep: FAA OR ICP ACID DIGESTION OF AQUEOUS SA	ate: 19-SEP-01 16:30	NELAC: Test: M134.0.0
Parameter HALLIUM	Result BDL	Det. Limit Units 0.010 mg/L
ERCURY CVAA ACID DIGESTION OF AU Analyst: J. O'BRYAN Analysis Da	QUEOUS SAMPLES SW846-7470A ate: 17-SEP-01 12:30 Instrument; PREP	Test: P131.6.0
Parameter NITIAL WEIGHT OR VOLUME INAL VOLUME	Result 40 40	Det. Limit Units mL mL
ERCURY CVAA SW846-7470A Analyst: J. O'BRYAN Analysis Da ep: MERCURY CVAA ACID DIGESTION OF AQUEOUS	ate: 18-SEP-01 12:39	NELAC: Test: M120.1.0
	Result	Det. Limit Units

INITIAL WEIGHT O	Parameter R VOLUME		Result 250	Det. Limit	Units mL
FINAL VOLUME			250		mL
CYANIDE, TOTAL (A			Instrument: AUTO-AN/	ALYZER Test:: G10	NELAC:Y
Prep: CYANIDE DISTILLAT	ION SW846-9010A P101.	4.0			

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Sample ID: A566289 FB@MW-0527

Parameter	Result	Det. Limit Unit	s
CYANIDE	BDL	0.005 mg/L	

Sample Comments

BDL Below Detection Limit

Sample was received on ice at temperature 6.8 C. All aqueous samples are reported on a wet weight basis unless otherwise noted. Sample chain of custody number 106227.

This Certificate shall not be reproduced, except in full, without the written approval of the lab.

The sample results relate only to the analytes of interest tested or to the sample as received by the lab.

Heritage Environmental Services, LLC certifies that the test results indicated as NELAC (National Environmental Laboratory Accreditation Conference) accredited (Yes for NELAC) meet all requirements of NELAC and Illinois EPA Part 186 unless otherwise explained or justified as to the the exact nature of the deviations.

Heritage Environmental Services, LLC is accredited under Illinois NELAC accreditation number 100401.

Arizona License Number AZ0627.

Approved: Pr Sence OAO

LABUKATURT SERVICES TERMS & CONDITIONS

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QUALITY ASSURANCE REPORT

Service Location
HERITAGE ENVIRONMENTAL SERVICES, LLC
COMMERCIAL LABORATORY OPERATIONS
7901 W. MORRIS ST.
INDIANAPOLIS, IN 46231
(317)243-8304

Report Date 28-SEP-01

Submitter
LOUISVILLE AND JEFFERSON COUNTY M.S.D.
KEN CONNER - MSD URBAN AREAS
400 SOUTH SIXTH STREET (40202-2397)
P.O. BOX 740011
LOUISVILLE, KY 40201

Client ID	Lab ID	Date-Time Sampled	Date Received	Date Complete	Description
MW-0427	A566287	13-SEP-01 10:50	13-SEP-01	25-SEP-01	WELL NUMBER: MW-0427
DUPamw-0427	A566288	13-SEP-01 10:50	13-SEP-01	25-SEP-01	WELL NUMBER: DUP@MW-0427
FB@MW-0527	A566289	13-SEP-01 12:00	13-SEP-01	25-SEP-01	WELL NUMBER: FB@MW-0527
MW-0527	A566290	13-SEP-01 13:25	13-SEP-01	26-SEP-01	WELL NUMBER: MW-0527
MW-0227	A566291	13-SEP-01 15:45	13-SEP-01	25-SEP-01	WELL NUMBER: MW-0227
MW-827	A566292	13-SEP-01 17:25	13-SEP-01	25-SEP-01	WELL NUMBER: MV-B27
MW-A27	A566293	13-SEP-01 18:50	13-SEP-01	25-SEP-01	WELL NUMBER: MW-A27

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PREP	420063	Analyst.: Reviewer:		Run Date: 23- Review Date: 24-						
QC Type	Lab ID	Source	Anal Run					<u></u> .		
BLA02	Q1283845		R420067			A Addison States				
LFB02L	Q1283846		R420067						,	
LFB02H	01283847		R420067							AHAM
SAMPLE	A566287	Rep: 0	R420067							
SAMPLE	A566288	Rep: 0	R420067							
SAMPLE	A566291	Rep: 0	R420067							
SPI02	Q1283848	A566291	R420067							
DPS02	Q1283849	A566291	R420067							
SAMPLE	A566289	Rep: 0	R420067							
SAMPLE	A566290	Rep: 0	R420067			*** **** *** * * * * * * * * * * * * * *				
SAMPLE	A566292	Rep: 0	R420067					717447 14 15 15 15 15 15 15 15 15 15 15 15 15 15		
SAMPLE	A566293	Rep: 0	R420067							
DUP02	Q1283850	A566293	R420067						······································	
Run: Re		Analyst.: Reviewer:		Run Date: 24- Review Date: 24-		Instrument:	AUTO-ANALYZER		•	
			I							
QC Type	Lab ID	Source	Parameter		True/Sampl	Spike Val	1	Units	% Rec	RPD
	Q1283885	Source	Parameter CYANIDE		True/Sampl	Spike Val	Observed BDL 0.005	Units mg/L	% Rec	RPD
BLA01	Q1283885 Q1283886	Source			True/Sampl	Spike Val	1		% Rec	RPD
BLAO1 CDLO1	Q1283885	Source	CYANIDE			Spike Val	BDL 0.005	mg/L		RPD
BLA01 CDL01 ICV01	Q1283885 Q1283886	Source	CYANIDE CYANIDE		0.02	Spike Val	BDL 0.005 0.0248	mg/L mg/L	124	RPD
BLA01 CDL01 ICV01 BLA02	Q1283885 Q1283886 Q1283887	Source	CYANIDE CYANIDE CYANIDE		0.02 0.15 0.05	Spike Val	BDL 0.005 0.0248 0.146	mg/L mg/L mg/L	124	RPD
BLAO1 CDLO1 ICVO1 BLAO2 LFBO2L	Q1283885 Q1283886 Q1283887 Q1283845 Q1283846 Q1283847	Source	CYANIDE CYANIDE CYANIDE CYANIDE CYANIDE CYANIDE		0.02 0.15	Spike Val	BDL 0.005 0.0248 0.146 BDL 0.005	mg/L mg/L mg/L mg/L	124 97.3	RPD
QC Type BLA01 CDL01 ICV01 BLA02 LFB02L LFB02H SAMPLE	Q1283885 Q1283886 Q1283887 Q1283845 Q1283846 Q1283847 A566287	Source	CYANIDE CYANIDE CYANIDE CYANIDE CYANIDE CYANIDE CYANIDE See Cert.	of Analysis, Rep: 0	0.02 0.15 0.05	Spike Val	BDL 0.005 0.0248 0.146 BDL 0.005 0.0503	mg/L mg/L mg/L mg/L mg/L	124 97.3 100.6	RPD
BLAO1 CDLO1 LCVO1 BLAO2 LFBO2L LFBO2H SAMPLE SAMPLE	Q1283885 Q1283886 Q1283887 Q1283845 Q1283846 Q1283847 A566287 A566288	Source	CYANIDE CYANIDE CYANIDE CYANIDE CYANIDE CYANIDE CYANIDE See Cert. See Cert.	of Analysis, Rep: 0	0.02 0.15 0.05	Spike Val	BDL 0.005 0.0248 0.146 BDL 0.005 0.0503	mg/L mg/L mg/L mg/L mg/L	124 97.3 100.6	RPD
BLAO1 CDLO1 ICVO1 BLAO2 LFBO2L LFBO2H SAMPLE SAMPLE	01283885 01283886 01283887 01283845 01283846 01283847 A566287 A566288 A566291		CYANIDE CYANIDE CYANIDE CYANIDE CYANIDE CYANIDE CYANIDE See Cert. See Cert.		0.02 0.15 0.05 0.25		BDL 0.005 0.0248 0.146 BDL 0.005 0.0503 0.262	mg/L mg/L mg/L mg/L mg/L	124 97.3 100.6 104.8	RPD
BLA01 CDL01 LCV01 BLA02 LFB02L LFB02H SAMPLE SAMPLE SAMPLE SAMPLE SP102	01283885 01283887 01283887 01283845 01283846 01283847 A566287 A566288 A566291 01283848	Source A566291	CYANIDE CYANIDE CYANIDE CYANIDE CYANIDE CYANIDE CYANIDE See Cert. See Cert. CYANIDE	of Analysis, Rep: 0	0.02 0.15 0.05 0.25	Spike Val	BDL 0.005 0.0248 0.146 BDL 0.005 0.0503 0.262	mg/L mg/L mg/L mg/L mg/L mg/L mg/L	124 97.3 100.6 104.8	RPD
BLA01 CDL01 ICV01 BLA02 FB02L FB02H SAMPLE SAMPLE SAMPLE SP102 CCV	01283885 01283887 01283887 01283845 01283846 01283847 A566287 A566288 A566291 01283848 01283888		CYANIDE CYANIDE CYANIDE CYANIDE CYANIDE CYANIDE CYANIDE See Cert. See Cert. CYANIDE CYANIDE	of Analysis, Rep: 0	0.02 0.15 0.05 0.25		BDL 0.005 0.0248 0.146 BDL 0.005 0.0503 0.262	mg/L mg/L mg/L mg/L mg/L mg/L	124 97.3 100.6 104.8	RPD
BLA01 CDL01 LCV01 BLA02 FB02L FB02L FB02H SAMPLE SAMPLE SAMPLE SP102 CCV BLA01	01283885 01283887 01283887 01283845 01283846 01283847 A566287 A566288 A566291 01283888 01283888	A566291	CYANIDE CYANIDE CYANIDE CYANIDE CYANIDE CYANIDE See Cert. See Cert. CYANIDE CYANIDE CYANIDE	of Analysis, Rep: 0	0.02 0.15 0.05 0.25	0.1	BDL 0.005 0.0248 0.146 BDL 0.005 0.0503 0.262 0.105 0.105 0.103 BDL 0.005	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	124 97.3 100.6 104.8 105 103	
BLA01 CDL01 CCV01 BLA02 FB02L FB02H SAMPLE S	01283885 01283886 01283887 01283845 01283846 01283847 A566287 A566288 A566291 01283848 01283888 01283889 01283889		CYANIDE CYANIDE CYANIDE CYANIDE CYANIDE CYANIDE See Cert. See Cert. CYANIDE CYANIDE CYANIDE CYANIDE CYANIDE CYANIDE	of Analysis, Rep: 0 of Analysis, Rep: 0	0.02 0.15 0.05 0.25		BDL 0.005 0.0248 0.146 BDL 0.005 0.0503 0.262	mg/L mg/L mg/L mg/L mg/L mg/L	124 97.3 100.6 104.8	
BLA01 CDL01 LCV01 BLA02 FB02L FB02H SAMPLE SAMPLE SAMPLE SP102 CCV BLA01 DPS02	01283885 01283886 01283887 01283845 01283846 01283847 A566287 A566288 A566291 01283848 01283888 01283889 01283889	A566291	CYANIDE CYANIDE CYANIDE CYANIDE CYANIDE CYANIDE See Cert. See Cert. CYANIDE CYANIDE CYANIDE CYANIDE CYANIDE CYANIDE CYANIDE See Cert.	of Analysis, Rep: 0 of Analysis, Rep: 0 of Analysis, Rep: 0	0.02 0.15 0.05 0.25	0.1	BDL 0.005 0.0248 0.146 BDL 0.005 0.0503 0.262 0.105 0.105 0.103 BDL 0.005	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	124 97.3 100.6 104.8 105 103	
BLAO1 CDLO1 LCVO1 BLAO2 FBO2L FBO2L FBO2H SAMPLE	01283885 01283886 01283887 01283845 01283846 01283847 A566287 A566288 A566291 01283888 01283888 01283889 01283889 01283849 A566289	A566291	CYANIDE CYANIDE CYANIDE CYANIDE CYANIDE CYANIDE See Cert. See Cert. CYANIDE CYANIDE CYANIDE CYANIDE CYANIDE CYANIDE CYANIDE CYANIDE See Cert. See Cert.	of Analysis, Rep: 0 of Analysis, Rep: 0 of Analysis, Rep: 0 of Analysis, Rep: 0	0.02 0.15 0.05 0.25	0.1	BDL 0.005 0.0248 0.146 BDL 0.005 0.0503 0.262 0.105 0.105 0.103 BDL 0.005	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	124 97.3 100.6 104.8 105 103	
BLAO1 CDLO1 LCVO1 BLAO2 FBO2L FBO2L FBO2H SAMPLE	01283885 01283886 01283887 01283845 01283846 01283847 A566288 A566291 01283848 01283889 01283889 01283889 A566289 A566290 A566292	A566291	CYANIDE CYANIDE CYANIDE CYANIDE CYANIDE CYANIDE See Cert. See Cert. CYANIDE CYANIDE CYANIDE CYANIDE CYANIDE CYANIDE CYANIDE CYANIDE CYANIDE See Cert. See Cert. See Cert.	of Analysis, Rep: 0 of Analysis, Rep: 0 of Analysis, Rep: 0 of Analysis, Rep: 0 of Analysis, Rep: 0	0.02 0.15 0.05 0.25	0.1	BDL 0.005 0.0248 0.146 BDL 0.005 0.0503 0.262 0.105 0.105 0.103 BDL 0.005	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	124 97.3 100.6 104.8 105 103	
BLA01 CDL01 LCV01 BLA02 FB02L FB02L FB02H SAMPLE	01283885 01283886 01283887 01283845 01283846 01283847 A566288 A566291 01283848 01283888 01283889 01283889 01283849 A566290 A566290 A566292	A566291	CYANIDE CYANIDE CYANIDE CYANIDE CYANIDE CYANIDE See Cert. See Cert. CYANIDE CYANIDE CYANIDE CYANIDE CYANIDE CYANIDE CYANIDE CYANIDE See Cert. See Cert. See Cert.	of Analysis, Rep: 0 of Analysis, Rep: 0 of Analysis, Rep: 0 of Analysis, Rep: 0	0.02 0.15 0.05 0.25	0.1	BDL 0.005 0.0248 0.146 BDL 0.005 0.0503 0.262 0.105 0.103 BDL 0.005 0.105	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	124 97.3 100.6 104.8 105 103	
BLAO1 CDLO1 ICVO1 BLAO2 LFBO2L LFBO2H SAMPLE SAMPLE	01283885 01283886 01283887 01283845 01283846 01283847 A566288 A566291 01283848 01283889 01283889 01283889 A566289 A566290 A566292	A566291	CYANIDE CYANIDE CYANIDE CYANIDE CYANIDE CYANIDE See Cert. See Cert. CYANIDE CYANIDE CYANIDE CYANIDE CYANIDE CYANIDE CYANIDE CYANIDE CYANIDE See Cert. See Cert. See Cert.	of Analysis, Rep: 0 of Analysis, Rep: 0 of Analysis, Rep: 0 of Analysis, Rep: 0 of Analysis, Rep: 0	0.02 0.15 0.05 0.25	0.1	BDL 0.005 0.0248 0.146 BDL 0.005 0.0503 0.262 0.105 0.105 0.103 BDL 0.005	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	124 97.3 100.6 104.8 105 103	Ò

ALUM] Prep	NUM ICP : FAA OR	SW846-60 ICP ACI	D10B D DIGEST	M101.3 ION OF AQUEOUS SAMPLES SW846-3005A
Run: R4		Analyst.: P	HALL WATNESS	Run Date: 18-SEP-01 Review Date: 19-SEP-01
QC Type	Lab ID	Source	Anal Run	
BLA02	Q1281516	NA	R419777	
LCS	Q1281517	SPEX	R419777	
SPI02	Q1281518	A566287	R419777	
DPS02	Q1281519	A566287	R419777	· · · · · · · · · · · · · · · · · · ·
SAMPLE	A566287	Rep: 0	R419777	

- 1. <u>Agreement</u>- To initiate services. Client must sign the Heritage Laboratory Services Quotation form and submit a written purchase order. Submittal of a purchase order and/or samples constitutes acceptance and acknowledgment by Client to be bound by this Agreement.
- 2. <u>Fees- Heritage shall provide services at the prices stated in its Quotation. Heritage reserves the right to change prices after providing Client with a 30 day notification.</u>
- 3. Taxes- Prices do not include taxes. It is the Client's responsibility to provide documentation to Heritage if the Client is exempt from tax liability.
- 4. <u>Payment- Invoices are payable on receipt.</u> All outstanding balances unpaid after 30 days of Client's receipt of invoices are subject to interest, either 1.5% per month or the amount permissible under applicable law.
- 5. <u>Samples</u>—Samples delivered to Heritage by others are taken "as is". Heritage makes no guarantee nor representation as to chain-of-custody prior to acceptance by Heritage. Heritage will not be responsible for exceeding holding times if the samples are not promptly delivered. All samples delivered on the weekends or after hours must be scheduled in advance.
- 6. <u>Sample Retention</u>- Samples and sample derivatives will be kept for 15 days after the report of analysis is made. Sample storage beyond 15 days is available at extra cost.
- 7. Sample Analysis- Heritage uses analytical methods which conform with the U.S. EPA, State Agency, American Society for Testing & Materials, Association of Official Analytical Chemists, Standard Methods for the Examination of Water and Wastewater or other recognized methodologies. Records of Heritage Laboratory procedures, including the Heritage Quality Assurance Program Plan, may be inspected by Clients.
- 8. <u>Sample Recurs</u>. Haritage shall provide a written report of the results of its services which will include test results, detection limits, dates of analysis, the analyst, and analytical method references. Additional documentation and special reports are available for additional fees, but must be arranged prior to sample delivery.
- 9. <u>Confidentiality</u> Heritage shall not disclose results or any other information provided by the Client to any third party, except where required by law. Heritage shall have no obligation to oppose any legal proceeding taken to obtain laboratory test results of confidential information.
- 10. <u>Additional or Different Tasks</u>—If additional analytical festing is necessary due to sample matrix interferences, multi-phase samples or any factor not disclosed to Heritage prior to its acceptance of the sample, the Client will be additional cost and will be given the apportunity to agree to the additional work or return or the cambre.
- 11. <u>Cancellation</u>— If the Otient cancels its order after the sample has been prepped and analyzed, the full fee in the mage is quotalled will apply. A \$25 cancellation fee will apply if a sample is delivered and accepted at the lap prace.
- 12. <u>molembhiliaech</u> Diem agrees to indemnify and hold harmless Heritage from all loss, damage, cost and expenses, not a no apropey less from any suit claim or action against Heritage or which names Heritage as a party decause.
 - all Heritaga tendenties analysis or work for the Client.
 - zinct healigenflacts, errors or omissions of the Olient; or
 - a. of Olient's (aliens to perform its obligations under this Agreement.)

QC Type	Lab ID	Source	Anal Run							
SAMPLE	A566288	Rep: 0	R419777							
SAMPLE	A566289	Rep: 0	R419777							
SAMPLE	A566290	Rep: 0	R419777							
SAMPLE	A566291	Rep: 0	R419777							
SAMPLE	A566292	Rep: 0	R419777		W					
SAMPLE	A566293	Rep: 0	R419777							
Run: R4 ANALYTI		Analyst.: . Reviewer: S		Run Date: Review Date:		Instrument:	ICP			
QC Type	Lab ID	Source	Parameter	-	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q1281984	PERKIN	ALUMINUM				1.04	mg/L	104	
CDL01	Q1281988	INORGAN	ALUMINUM		10		9.93	mg/L	99.3	1
ICS-A	Q1281990	PERKIN	ALUMINUM		500		530.	mg/L	106	
ccv	Q1281993	INORGAN	ALUMINUM		5.00		5.15	mg/L	103	
BLA01	1281994	NA	ALUMINUM				< 0.0200	mg/L		
BLA02	Q1281516	NA	ALUMINUM				< 0.0200	mg/L	1	
LCS	Q1281517	SPEX	ALUMINUM		20.0		21.4	mg/L	107	
SAMPLE	A566287		See Cert.	of Analysis, Rep: 0						
SP102	Q1281518	A566287	ALUMINUM		0	2.00	2.26	mg/L	113	
DPS02	01281519	A566287	ALUMINUM		0	2.00	2.23	mg/L	111.5	1.3
CCV	Q1281995	INORGAN	ALUMINUM		5.00		5.18	mg/L	103.6	D. 14
BLA01	Q1281996	NA .	ALUMINUM				< 0.0200	mg/L		
SAMPLE	A566288			of Analysis, Rep: 0		Principal Communication				
SAMPLE	A566289		L	of Analysis, Rep: 0		<u></u>				
SAMPLE	A566290			of Analysis, Rep: 0						
SAMPLE	A566291			of Analysis, Rep: 0]				
SAMPLE	A566292		See Cert.	of Analysis, Rep: 0						
SAMPLE	A566293		See Cert.	of Analysis, Rep: 0						
CCV	Q1281997	INORGAN	ALUMINUM		5.00		5.22	mg/L	104.4	
BLA01	Q1281998	NA	ALUMINUM				< 0.0200	mg/L		
ICS-A	Q1282022	PERKIN-	ALUMINUM		500		533.	mg/L	106.6	

Run: R4 PREP	19695	Analyst.: M Reviewer: W		Run Date: Review Date:						
ас туре	Lab ID	Source	Anal Run			 _				
BLA02	Q1281516	NA	R419777							
LCS	Q1281517	SPEX	R419777							
SP102	Q1281518	A566287	R419777				u vysturies (M.), Adebe Koronomies (M.), Bereio			
DPS02	Q1281519	A566287	R419777							
SAMPLE	A566287	Rep: 0	R419777			A 42 (1)	al y yy. •			1.1.45
SAMPLE	A566288	Rep: 0	R419777							
SAMPLE	A566289	Rep: 0	R419777				1 15 (WAS 11 S 1501 - A WAS ATS 12 S 1			
SAMPLE	A566290	Rep: 0	R419777	() () () () () () () () () ()			***************************************			
SAMPLE	A566291	Rep: 0	R419777			aan. Maraa aa aa aa				
SAMPLE	A566292	Rep: 0	R419777							
SAMPLE	A566293	Rep: 0	R419777							
Run: R4 ANALYTI		Analyst.: J Reviewer: S		Run Date: Review Date:		Instrument:	ICP			
ос Туре	Lab ID	Source	Parameter		True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q1281983	PERKIN	ANTIMONY		1		1.02	mg/L	102	
CDL01	01281987	PERKIN	ANTIMONY	···. : ' '	0.120		0.120	mg/L	100	, <i>2</i> 4.2777

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- 5. <u>Samples</u> Samples delivered to Heditage by others are taken "as is". Heritage makes no guarantee nor representation as to chain-of-custody prior to acceptance by Heritage. Heritage will not be responsible for exceeding holding times if the samples are not promptly delivered. All samples delivered on the weekends or after hours must be scheduled in advance.
- 6. <u>Sample Retention</u>- Samples and sample derivatives will be kept for 15 days after the report of analysis is made. Sample storage beyond 15 days is available at extra cost.
- 7. Sample Analysis Heritage uses analytical methods which conform with the U.S. EPA, State Agency, American Society for Testing & Materials, Association of Official Analytical Chemists, Standard Methods for the Examination of Water and Wastewater or other recognized methodologies. Records of Heritage Laboratory procedures, including the Heritage Quality Assurance Program Plan, may be inspected by Clients.
- 8. Sample Reports Heritage shall provide a written report of the results of its services which will include test results. Detection limits, dates of analysis, the analyst, and analytical method references. Additional docume mation and special reports are available for additional fees, but must be arranged prior to sample delivery.
- 9. <u>Confidentiality</u> Heritage shall not disclose results or any other information provided by the Client to any third party, except where required by law. Heritage shall have no obligation to oppose any legal proceeding taken to obtain laboratory test results of confidential information.
- 40. Additions, or Different Tasks. If additional analytical testing is necessary due to sample matrix interferences, multi-bliage camples of any factor not disclosed to Heritage prior to its acceptance of the sample, the Client will be mortified of the additional cost and will be given the opportunity to agree to the additional work or return of the names.
- 11. <u>Dance a president Chem, cancels its proer after the sample has been prepped and analyzed, the full feet in mentage and a sample is delivered and accepted at the authority. A \$25 cancellation fee will apply if a sample is delivered and accepted at the authority.</u>
- 12. <u>Poem refers on a Chart agrees to Indemnify and hold harmless Heritage from all loss, damage, cost and a transfer inducing and may fees from any suit, daim or action against Heritage or which names Heritage at a 100 ceta of a</u>
 - a. Fér lago performed analysis or work for the Client.
 - b. of neciloent acts, errors or omissions of the Clienti or
 - of of Client's failure to perform its obligations under this Agreement.

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICS-A	Q1281990	PERKIN	ANTIMONY	0.6		0.642	mg/L	107	
CCV	Q1281993	INORGAN	ANTIMONY	1		1.04	mg/L	104	
BLA01	01281994	NA	ANTIMONY			< 0.00400	mg/L	[B-4.4]	[
BLA02	Q1281516	NA	ANTIMONY			< 0.00400	mg/L	İ	
LCS	Q1281517	SPEX	ANTIMONY	5.00		5.54	mg/L	110.8	
SAMPLE	A566287		See Cert. of Analysis, Rep: 0						
SP102	Q1281518	A566287	ANTIMONY	0	0.500	0.563	mg/L	112.6	
DPS02	Q1281519	A566287	ANTIMONY	0	0.500	0.561	mg/L	112.2	.4
CCV	Q1281995	INORGAN	ANTIMONY			1.05	mg/L	105	
BLA01	Q1281996	NA	ANTIMONY			< 0.00400	mg/L	1	
SAMPLE	A566288		See Cert. of Analysis, Rep: 0						
SAMPLE	A566289		See Cert. of Analysis, Rep: 0	<u>'</u>			l	:	İ
SAMPLE	A566290		See Cert. of Analysis, Rep: 0						1.1.0000
SAMPLE	A566291		See Cert. of Analysis, Rep: 0	1					
SAMPLE	A566292		See Cent. of Analysis, Rep: 0						
SAMPLE	A566293		See Cert. of Analysis, Rep: 0	.,,, . ,,,,,,,					
CCV	Q1281997	INORGAN	ANTIMONY	1		1.05	mg/L	105	
BLA01	Q1281998	NA	ANTIMONY			< 0.00400	mg/L		
CDL01	Q1282021	PERKIN	ANTIMONY	0.120		0.121	mg/L	100.8	2
ICS-A	Q1282023	PERKIN	ANTIMONY	0.6		0.639	mg/L	106.5	

Run: R4	419695	Analyst.: Reviewer:		Run Date: Review Date:						
QC Type	Lab ID	Source	Anal Run							
SAMPLE	A566287	Rep: 0	R419807	Annual An						
SAMPLE	A566288	Rep: 0	R419807							
SAMPLE	A566289	Rep: 0	R419807							
SAMPLE	A566290	Rep: 0	R419807							
SAMPLE	A566291	Rep: 0	R419807							
SAMPLE	A566292	Rep: 0	R419807							**
SAMPLE	A566293	Rep: 0	R419807							
BLA02	Q1281520	NA	R419807							
LCS	Q1281521	INORGAN	R419807							
SP102	Q1281522	A566287	R419807							
DPS02	Q1281523	A566287	R419807							<u> </u>
Run: R4	19807		DRABENSTOTT	Run Date: Review Date:		Instrument:	TRACE ICP			<u> </u>
Run: R4 ANALYTI	19807 ICAL	Analyst.: 1	DRABENSTOTT			Instrument:	TRACE ICP	Units	% Rec	RPD
Run: R4 ANALYTI QC Type	19807 ICAL	Analyst.: I Reviewer:	D DRABENSTOTT S ENDERSON		20-SEP-01	T	7	Units mg/L	% Rec 92.8	RPD
Run: R4 ANALYTI QC Type ICV01	19807 ICAL Lab ID	Analyst.: I Reviewer: ! Source	D DRABENSTOTT S ENDERSON Parameter		20-SEP-01 True/Sampl	T	Observed		1	RPD
Run: R4 ANALYTI QC Type ICV01 CDL01	19807 ICAL Lab ID Q1282202	Analyst.: I Reviewer: ! Source PERKIN-	D DRABENSTOTT S ENDERSON Parameter ARSENIC		20-SEP-01 True/Sampl 0.05	T	Observed	mg/L	92.8	RPD
Run: R4 ANALYTI QC Type ICV01 CDL01	19807 ICAL Lab ID Q1282202 Q1282207	Analyst.: I Reviewer: Source PERKIN- INORGAN	D DRABENSTOTT S ENDERSON Parameter ARSENIC		20-SEP-01 True/Sampl 0.05 0.5	T	Observed 0.0464 0.502	mg/L mg/L	92.8 100.4	RPD
Run: R4 ANALYTI QC Type ICV01 CDL01 ICS-A	19807 ICAL Lab ID Q1282202 Q1282207 Q1282209	Analyst.: I Reviewer: Source PERKIN- INORGAN PERKIN	D DRABENSTOTT S ENDERSON Parameter ARSENIC ARSENIC ARSENIC		20-SEP-01 True/Sampl 0:05 0.5	T	Observed 0.0464 0.502	mg/L mg/L mg/L	92.8 100.4 102	RPD
Run: R4 ANALYTI QC Type ICV01 CDL01 ICS-A CCV BLA01	19807 ICAL Lab ID Q1282202 Q1282207 Q1282209 Q1282214	Analyst.: Reviewer: Source	D DRABENSTOTT S ENDERSON Parameter ARSENIC ARSENIC ARSENIC ARSENIC		20-SEP-01 True/Sampl 0:05 0.5	T	Observed 0.0464 0.502 0.102	mg/L mg/L mg/L mg/L	92.8 100.4 102	RPD
Run: R4 ANALYTI QC Type ICV01 CDL01 ICS-A CCV BLA01 BLA02	19807 ICAL Lab ID 91282202 91282207 91282209 91282214 91282215	Analyst.: Reviewer: Source PERKIN- INORGAN PERKIN INORGAN	D DRABENSTOTT S ENDERSON Parameter ARSENIC ARSENIC ARSENIC ARSENIC ARSENIC ARSENIC		20-SEP-01 True/Sampl 0:05 0.5	T	Observed 0.0464 0.502 0.102 0.102 < 0.00200	mg/L mg/L mg/L mg/L mg/L	92.8 100.4 102	RPD
Run: R4 ANALYTI DC Type ICV01 CDL01 ICS-A CCV BLA01 BLA02 -CS	19807 ICAL Lab ID Q1282202 Q1282207 Q1282209 Q1282214 Q1282215 Q1281520	Analyst:: Reviewer: Source	D DRABENSTOTT S ENDERSON Parameter ARSENIC ARSENIC ARSENIC ARSENIC ARSENIC ARSENIC ARSENIC ARSENIC ARSENIC		20-SEP-01 True/Sampl 0:05 0.5 0.1 0.1	Spike Val	Observed 0.0464 0.502 0.102 0.102 < 0.00200 < 0.00200	mg/L mg/L mg/L mg/L mg/L mg/L	92.8 100.4 102 102	RPD
Run: R4 ANALYTI QC Type ICV01 CDL01 ICS-A CCCV BLA01 BLA02 LCS SAMPLE	19807 ICAL 21282202 21282207 21282207 21282214 21282215 21281520 21281521	Analyst:: Reviewer: Source	D DRABENSTOTT S ENDERSON Parameter ARSENIC ARSENIC ARSENIC ARSENIC ARSENIC ARSENIC ARSENIC ARSENIC ARSENIC	Review Date:	20-SEP-01 True/Sampl 0:05 0.5 0.1 0.1	Spike Val	Observed 0.0464 0.502 0.102 0.102 < 0.00200 < 0.00200	mg/L mg/L mg/L mg/L mg/L mg/L	92.8 100.4 102 102	
Run: R4 ANALYTI QC Type 1CV01 CDL01 1CS-A CCV BLA01 BLA02 LCS SAMPLE SP102	19807 ICAL Q1282202 Q1282207 Q1282209 Q1282214 Q1282215 Q1281520 Q1281521 A566287	Analyst:: I Reviewer: ! Source PERKIN- INORGAN PERKIN INORGAN NA INORGAN	D DRABENSTOTT S ENDERSON Parameter ARSENIC ARSENIC ARSENIC ARSENIC ARSENIC ARSENIC ARSENIC ARSENIC See Cert. of	Review Date:	20-SEP-01 True/Sampl 0:05 0.5 0.1 0.1	Spike Val	Observed 0.0464 0.502 0.102 0.102 <.0.00200 <.0.00200 0.557	mg/L mg/L mg/L mg/L mg/L mg/L	92.8 100.4 102 102	
Run: R4	19807 ICAL Q1282202 Q1282207 Q1282207 Q1282214 Q1282215 Q1281520 Q1281521 A566287 Q1281522	Analyst:: Reviewer: Source PERKIN-INORGAN PERKIN INORGAN NA INORGAN NA A566287	D DRABENSTOTT S ENDERSON Parameter ARSENIC ARSENIC ARSENIC ARSENIC ARSENIC ARSENIC ARSENIC ARSENIC ARSENIC ARSENIC ARSENIC	Review Date:	20-SEP-01 True/Sampl 0:05 0.5 0.1 0.1	Spike Val	Observed 0.0464 0.502 0.102 0.102 <.0.00200 <.0.00200 0.557	mg/L mg/L mg/L mg/L mg/L mg/L	92.8 100.4 102 102 111,4	

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- Cancellation of the Crient cancels its order after the sample has been prepped and analyzed, the full fee in meritage siguration, will apply. A \$25 cancellation fee will apply if a sample is delivered and accepted at the appraish.
- 12. <u>Indem Maartin</u>— Client agrees to indemnify and hold harmless Heritage from all loss, damage, cost and expenses, inducing attorney fees from any sulf, claim or action against Heritage or which names Heritage easily because
 - all He made bed, the plantalysis on won, for the Olienic
 - b. of negligem, acts, errord or omissions of the Client; or
 - c. of Olient's failure to perform its obligations under this Agreement.

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	-	Rec RPD
SAMPLE	A566288		See Cert. of Analysis, Rep: 0					
SAMPLE	A566289		See Cert. of Analysis, Rep: 0	!			' l	}
SAMPLE	A566290		See Cert. of Analysis, Rep: 0		***************************************			
SAMPLE	A566291		See Cert. of Analysis, Rep: 0	, , , , , , , , , , , , , , , , , , , ,				
SAMPLE	A566292		See Cert. of Analysis, Rep: 0					
SAMPLE	A566293		See Cert. of Analysis, Rep: 0					
CCV	Q1282218	INORGAN	ARSENIC	0.1		0.102	mg/L	102
BLA01	Q1282219	NA	ARSENIC			< 0.00200	mg/L	
CDL01	01282222	PERKIN-	ARSENIC	0.02		0.0211	ma/L	105.5
ICS-A	Q1282224	PERKIN	ARSENIC	0.1		0.102	mg/L	102

Run: R	419695	Analyst.: Reviewer:		Run Date: Review Date:						
QC Type	Lab ID	Source	Anal Run							
BLA02	Q1281516	NA	R419777							
LCS	Q1281517	SPEX	R419777							
SPI02	Q1281518	A566287	R419777							
DPS02	Q1281519	A566287	R419777				*			
SAMPLE	A566287	Rep: 0	R419777							
SAMPLE	A566288	Rep: 0	R419777							
SAMPLE	A566289	Rep: 0	R419777						· · · · · · · · · · · · · · · · · · ·	
SAMPLE	A566290	Rep: 0	R419777							er Artintz
SAMPLE	A566291	Rep: 0	R419777							
SAMPLE	A566292	Rep: 0	R419777							
SAMPLE	A566293	Rep: 0	R419777							
Run: R4		Analyst.: Reviewer:		Run Date: Review Date:		Instrument:	ICP			
C Type	Lab ID	Source	Parameter		True/Sampl	Spike Val	Observed	Units	% Rec	RPD
CV01	Q1281984	PERKIN	BARIUM		1		1.07	mg/L	107	
CDL01	Q1281988	INORGAN	BARIUM		10		9.99	mg/L	99.9	
ICS-A	Q1281990	PERKIN	BARIUM		0.500		0.509	mg/L	101.8	
ccv	Q1281993	INORGAN	BARIUM		5.00		5.06	mg/L	101.2	
BLA01	Q1281994	NA	BARIUM			Taw GH.	< 0.00400	mg/L		
BLA02	Q1281516	NA	BARIUM				< 0.00400	mg/L]]
LCS	Q1281517	SPEX	BARIUM		20.0		19.8	mg/L	99	# 1/41 #
SAMPLE	A566287		See Cert. of	Analysis, Rep: 0						
SPI02	Q1281518	A566287	BARIUM		0.121	2.00	2.20	mg/L	104	**************************************
PS02	Q1281519	A566287	BARIUM		0.121	2.00	2.22	mg/L	105	1
ccv	Q1281995	INORGAN	BARIUM		5.00		5.06	mg/L	101.2	
	Q1281996	NA	BARIUM				< 0.00400	mg/L		
BLA01			See Cert. of	Analysis, Rep: 0			H			A
SLAU1	A566288		1					1	1 27	
AMPLE	A566288 A566289	1	See Cert. of	Analysis, Rep: 0	l l					::::::::::::::::::::::::::::::::::::::
AMPLE AMPLE	CONTRACTOR AT TAXABLE				u XII. di juudan kee	1. 2553 257	Tariwa da kawa ili da			1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
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AMPLE AMPLE AMPLE AMPLE	A566289 A566290 A566291		See Cert. of See Cert. of	Analysis, Rep: 0 Analysis, Rep: 0						
AMPLE AMPLE AMPLE AMPLE	A566289 A566290		See Cert. of See Cert. of See Cert. of	Analysis, Rep: 0 Analysis, Rep: 0 Analysis, Rep: 0						
AMPLE AMPLE AMPLE AMPLE AMPLE AMPLE	A566289 A566290 A566291 A566292 A566293	TNORGAN	See Cert. of See Cert. of See Cert. of See Cert. of	Analysis, Rep: 0 Analysis, Rep: 0 Analysis, Rep: 0 Analysis, Rep: 0			5.04	mg/L	100.8	
	A566289 A566290 A566291 A566292	INORGAN	See Cert. of See Cert. of See Cert. of	Analysis, Rep: 0 Analysis, Rep: 0 Analysis, Rep: 0 Analysis, Rep: 0	5.00		5.04	mg/L mg/L	100.8	

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- 14. <u>Caudeliation</u> of the Criem cancels its order after the sample has been prepped and analyzed, the full fee in Heritage's quotation will apply. A \$25 cancellation fee will apply if a sample is delivered and accepted at the salt train.
- 12. <u>indem. Roar the Chert agreet rolindemnify and hold harmless Heritage from all loss, damage, cost and expenses, industing addingly feet from any suit, claim or action against Heritage or which names Heritage as a 1 a to 194 (2011).</u>
 - a. Hemana pendimed analysis of work for the Olient.
 - b. of negligent acts, errors or omissions of the Client; or
 - c. of Client's failure to perform its obligations under this Agreement.

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Run: R419695	Analyst.:	M HALL	Run Date: Review Date:	18-SEP-01			<u> </u>		
QC Type Lab ID	Source	Anal Run							
BLA02 01281516		R419777							14.635 JA
LCS Q1281517		R419777	was manana ay ay				· · · · · · · · · · · · · · · ·	VANCOUNT OF THE	
SPI02 Q1281518	A566287	R419777							
DPS02 01281519	A566287	R419777				***************************************			
SAMPLE A566287	Rep: 0	R419777		*************					
SAMPLE A566288	Rep: 0	R419777	V						
SAMPLE A566289	Repi 0	R419777					/.W - X- 335		
SAMPLE A566290	Rep: 0	R419777							
SAMPLE A566291	Rep: 0	R419777							
SAMPLE A566292	Rep: 0	R419777							
SAMPLE A566293	Rep: 0	R419777							
Run: R419777 ANALYTICAL	Analyst.: Reviewer: S		Run Date: Review Date:		Instrument:	ICP			
QC Type Lab ID	Source	Parameter		True/Sampl	Spike Val	Observed	Units	% Rec	RPD
1CV01 Q1281983	PERKIN	BERYLLIUM		1		1.03	mg/L	103	4000000
CDL01 Q1281988	INORGAN	BERYLLIUM		10		9.88	mg/L	98.8	
ICS-A Q1281990	PERKIN	BERYLLIUM		0.500		0.531	mg/L	106.2	
CCV Q1281993	INORGAN	BERYLLIUM		5.00		5.29	mg/L	105.8	
BLA01 Q1281994	NA	BERYLLIUM				< 0.00160	mg/L		
BLA02 Q1281516	NA NA	BERYLLIUM				< 0.00160	mg/L		
LCS Q1281517	SPEX	BERYLLIUM		0.500		0.547	mg/L	109.4	
SAMPLE A566287			Analysis, Rep: 0						
SPI02 Q1281518		BERYLLIUM		0	0.050	0.0544	mg/L	108.8	12.000
DPS02 Q1281519		BERYLLIUM			0.050	0.0544	mg/L	108.8	0
CCV 91281995		BERYLLIUM		5.00		5.32	mg/L	106.4	
BLA01 Q1281996	NA	BERYLLIUM				< 0.00160	mg/L		<u> </u>
SAMPLE A566288			Analysis, Rep: 0						
SAMPLE A566289			Analysis, Rep: 0		<u> </u>				
SAMPLE A566290			Analysis, Rep: 0						
SAMPLE A566291			Analysis, Rep: 0		L				
SAMPLE A566292			Analysis, Rep: 0		fa kulturan				
SAMPLE A566293			Analysis, Rep: 0					1	1
CCV 01281997		BERYLLIUM		5.00		5.27	mg/L	105.4	
BLA01 Q1281998	L	BERYLLIUM				< 0.00160	mg/L		
CDL01 01282021		BERYLLIUM		0.010		0.0103	mg/L	103	
ICS-A Q1282023	PERKIN	BERYLLIUM		0.500		0.520	mg/L	104	

	and the second of the second	W846-60 ICP ACI	and the second second second second	AQUEOUS	SAMPLES	3005A		M108.3		N. S
Run: R		Analyst.: P		n Date: view Date:						
QC Type	Lab ID	Source	Anal Run	 		 -			 	
BLA02	Q1281516	NA	R419777						4	6 N.W. 24
LCS	Q1281517		R419777	 		 			 	
SPI02	Q1281518	A566287	R419777		A 255	21 10000 1 200	ji ngama			: :::::: : :
DPS02	Q1281519	A566287	R419777	 		 . ,, ,			 	
SAMPLE	A566287	Rep: 0	R419777			1354, 35, 35, 41, 11, 11			40 1 1 5 4 5 1	79.7.41

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- 11. Carnelis us to the Chem cancels its order after the sample has been prepped and analyzed, the full fee in Hentage's got tarion will apply. A \$15 canceltation fee will apply if a sample is delivered and accepted at the rationality.
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 - a. Remade performed shaysis or work for the Client.
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 - o. of Olient's failure to perform its obligations under this Agreement.

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			99						
A566292	Rep: 0	1000 to 1 10000000000 1 1000000000000000							
A566293	Rep: 0	R419777							
					Instrument:	ICP			
Lab ID	Source	Parameter		True/Sampl	Spike Val	Observed	Units	% Rec	RPD
Q128198 3	PERKIN	CADMIUM	7			1.02	mg/L	102	
Q1281988	INORGAN	CADMIUM		10		9.95	mg/L	99.5	
Q1281990	PERKIN	CADMIUM		1.00	N	1.07	mg/L	107	
Q1281993	INORGAN	CADMIUM		5.00		5.17	mg/L	103.4	
Q1281994	NA	CADMIUM	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.			< 0.00200	mg/L		
Q1281516	NA	CADMIUM		1	}	< 0.00200	mg/L	1	1 1
Q1281517	SPEX	CADMIUM		0.500		0.532	mg/L	106.4	
A566287		See Cert. of Ana	lysis, Rep: 0						
Q1281518	A566287	CADMIUM	10. 10. 10. 10. 10. 10. 10. 10. 10. 10.	O	0.050	0.0534	mg/L	106.8	
Q1281519	A566287	CADMIUM	•	0	0.050	0.0535	mg/L	107	.2
Q1281995	INORGAN	CADMIUM		5.00		5.16	mg/L	103.2	
Q1281996	NA	CADMIUM				< 0.00200	mg/L		
A566288		See Cert. of Ana	lysis, Rep: 0						
A566289		See Cert. of Ana	lysis, Rep: 0			i	· ·		
A566290		See Cert. of Ana	lysis, Rep: 0						
A566291		See Cert. of Ana	lysis, Rep: 0		`				}
A566292		See Cert. of Ana	lysis, Rep: 0					1 2 2 2 2 2	*******
A566293		See Cert. of Ana	lysis, Rep: 0		1.				
Q1281997	INORGAN	CADMIUM	1000 1000 1000 1000 1000 1000 1000 100	5.00		5.15	mg/L	103	
Q1281998	NA	CADMIUM	.*			< 0.00200	mg/L		
01282021	PERKIN	CADMIUM		0.010		0.0101	mg/L	101	20.00 mm
Q1282023	PERKIN	CADMIUM		1.00		1.05	ma/l	105	'
[19777 ICAL 19777 1CAL 1281983 1281988 1281990 1281994 1281516 1281517 A566287 1281518 1281519 1281995 1281995 1281996 A566288 A566289 A566290 A566291 A566291 A566293 1281997 1281998 1281997 1281998 1281998 1281998 1281998	A566288 Rep: 0 A566289 Rep: 0 A566290 Rep: 0 A566291 Rep: 0 A566292 Rep: 0 A566293 Rep: 0 A566293 Rep: 0 A566293 Rep: 0 A566293 Rep: 0 A19777 Analyst.: CAL Reviewer: S CAL Reviewer: S CAL Reviewer: S CAL Reviewer: S CAL Reviewer: S CAL Reviewer: S CAL Reviewer: S CAL Reviewer: S CAL Reviewer: S CAL Reviewer: S CAL Reviewer: S CAL Reviewer: S CAL Reviewer: S CAL Rep: 0 A566293 INORGAN A566287 A566287 A566288 A566289 A566290 A566291 A566292 A566293 A1281998 NA A1281998 NA A1281998 NA A1281998 NA A1281998 NA A1281998 NA	A566288 Rep: 0 R419777 A566289 Rep: 0 R419777 A566290 Rep: 0 R419777 A566291 Rep: 0 R419777 A566292 Rep: 0 R419777 A566293 Rep: 0 R419777 A566293 Rep: 0 R419777 A566293 Rep: 0 R419777 A566293 Rep: 0 R419777 A566293 Rep: 0 R419777 A566293 Rep: 0 R419777 A566293 Rep: 0 R419777 A566293 Rep: 0 R419777 A566293 Rep: 0 R419777 A566293 PERKIN CADMIUM A566293 PERKIN CADMIUM A566287 CADMIUM A566287 CADMIUM A566287 CADMIUM A566288 A566287 CADMIUM A566288 See Cert. of Analystic Association of As	A566288 Rep: 0 R419777 A566289 Rep: 0 R419777 A566290 Rep: 0 R419777 A566291 Rep: 0 R419777 A566292 Rep: 0 R419777 A566293 Rep: 0 R419777 A566293 Rep: 0 R419777 A566293 Rep: 0 R419777 A566293 Rep: 0 R419777 A566293 Rep: 0 R419777 A566293 Rep: 0 R419777 A566293 Rep: 0 R419777 A566293 Rep: 0 R419777 A566293 PERKIN CADMIUM A1281988 INORGAN CADMIUM A1281990 PERKIN CADMIUM A1281993 INORGAN CADMIUM A1281994 NA CADMIUM A1281516 NA CADMIUM A1281517 SPEX CADMIUM A1281518 A566287 CADMIUM A1281519 A566287 CADMIUM A1281519 A566287 CADMIUM A1281995 INORGAN CADMIUM A1281995 INORGAN CADMIUM A566288 See Cert. of Analysis, Rep: 0 A566290 See Cert. of Analysis, Rep: 0 A566291 See Cert. of Analysis, Rep: 0 A566292 See Cert. of Analysis, Rep: 0 A566293 See Cert. of Analysis, Rep: 0 A566293 See Cert. of Analysis, Rep: 0 A566293 See Cert. of Analysis, Rep: 0 A566291 NORGAN CADMIUM A1281998 NA CADMIUM A1281998 NA CADMIUM A1281998 NA CADMIUM A1281998 NA CADMIUM A1281998 NA CADMIUM A1281998 NA CADMIUM A1281998 NA CADMIUM A1281998 NA CADMIUM A1281998 NA CADMIUM A1281998 NA CADMIUM A1281998 NA CADMIUM A1281998 NA CADMIUM A1281998 NA CADMIUM A1281998 NA CADMIUM A1281998 NA CADMIUM A1281998 NA CADMIUM A1281998 NA CADMIUM A1281998 NA CADMIUM A1281980 NA CADMIUM A1281998 NA CADMIUM	## ## ## ## ## ## ## ## ## ## ## ## ##	A566288 Rep: 0 R419777 A566290 Rep: 0 R419777 A566291 Rep: 0 R419777 A566291 Rep: 0 R419777 A566292 Rep: 0 R419777 A566292 Rep: 0 R419777 A566293 Rep: 0 R419777 A566293 Rep: 0 R419777 CICAL Reviewer: S ENDERSON Review Date: 19-SEP-01 Instrument: Review Date: 19-SEP-01 Lab ID Source Parameter True/Sampl Spike Val Q1281983 PERKIN CADMIUM 10 Q1281988 INORGAN CADMIUM 10 Q1281990 PERKIN CADMIUM 1.00 Q1281993 INORGAN CADMIUM 5.00 Q1281994 NA CADMIUM 5.00 Q1281516 NA CADMIUM 0.0000 Q1281517 SPEX CADMIUM 0.0500 Q1281518 A566287 CADMIUM 0.00000 Q1281519 A566287 CADMIUM 0.000000 Q1281995 INORGAN CADMIUM 0.000000 Q1281995 INORGAN CADMIUM 5.00 Q1281996 NA CADMIUM 5.00 Q1281996 NA CADMIUM 5.00 Q1281997 INORGAN CADMIUM 5.00 Q1281997 See Cert. of Analysis, Rep: 0 A566291 See Cert. of Analysis, Rep: 0 A566291 See Cert. of Analysis, Rep: 0 A566291 See Cert. of Analysis, Rep: 0 A566293 See Cert. of Analysis, Rep: 0 A566293 See Cert. of Analysis, Rep: 0 A566293 See Cert. of Analysis, Rep: 0 A566293 See Cert. of Analysis, Rep: 0 A566290 See Cert. of Analysis, Rep: 0 A566291 See Cert. of Analysis, Rep: 0 A566293 See Cert. of Analysis, Rep: 0 A566293 See Cert. of Analysis, Rep: 0 A566294 See Cert. of Analysis, Rep: 0 A566295 See Cert. of Analysis, Rep: 0 A566296 See Cert. of Analysis, Rep: 0 A566297 PERKIN CADMIUM See Continum See Cadmium A566288 Rep: 0 R419777 A566289 Rep: 0 R419777 A566290 Rep: 0 R419777 A566291 Rep: 0 R419777 A566291 Rep: 0 R419777 A566293 Rep: 0 R419777 A566293 Rep: 0 R419777 A566293 Rep: 0 R419777 A566293 Rep: 0 R419777 A19777 Analyst.: J KRAMER Reviewer: S ENDERSON Review Date: 19-SEP-01 Instrument: ICP A1981983 INORGAN CADMIUM A1 0 9.95 A1281988 INORGAN CADMIUM A1 0 9.95 A1281990 PERKIN CADMIUM A1 0 9.95 A1281994 NA CADMIUM A1 0 9.95 A1281995 INORGAN CADMIUM A566287 See Cert. of Analysis, Rep: 0 A1281995 INORGAN CADMIUM A566288 See Cert. of Analysis, Rep: 0 A566291 See Cert. of Analysis, Rep: 0 A566291 See Cert. of Analysis, Rep: 0 A566291 See Cert. of Analysis, Rep: 0 A566291 See Cert. of Analysis, Rep: 0 A566291 See Cert. of Analysis, Rep: 0 A566291 See Cert. of Analysis, Rep: 0 A566293 NA CADMIUM A566288 See Cert. of Analysis, Rep: 0 A566291 See Cert. of Analysis, Rep: 0 A566291 See Cert. of Analysis, Rep: 0 A566291 See Cert. of Analysis, Rep: 0 A566293 NA CADMIUM A566294 See Cert. of Analysis, Rep: 0 A566295 NA CADMIUM A566296 See Cert. of Analysis, Rep: 0 A566297 See Cert. of Analysis, Rep: 0 A566290 See Cert. of Analysis, Rep: 0 A566291 See Cert. of Analysis, Rep: 0 A566292 See Cert. of Analysis, Rep: 0 A566293 NA CADMIUM A566294 See Cert. of Analysis, Rep: 0 A566295 NA CADMIUM A566296 See Cert. of Analysis, Rep: 0 A566297 See Cert. of Analysis, Rep: 0 A566298 NA CADMIUM A566298 NA CADMIUM A566298 NA CADMIUM A566298 See Cert. of Analysis, Rep: 0 A566290 See Cert. of Analysis, Rep: 0 A566291 NORGAN CADMIUM A566294 NA CADMIUM A566295 NA CADMIUM A566296 NA CADMIUM A566297 NA CADMIUM A566298 NA CADMIUM A566298 NA CADMIUM A566298 NA CADMIUM A566299 NA CADMIUM A566290 NA CADMIUM A566290 NA CADMIUM A566291 NORGAN CADMIUM A566291 NA CADMIUM A566291 NA CADMIUM A566291 NA CADMIUM A566291 NA CADMIUM A566291 NA CADMIUM A566291 NA CADMIUM A566291 NA CADMIUM A566291 NA CADMIUM A566291 NA CADMIUM A566291 NA CADMIUM A566291 NA CADMIUM A566291 NA CADMIUM A566291 NA CADMIUM A566291 NA CADMIUM A566291 NA CADMIUM A566291 NA CADMIUM A	A566288 Rep: 0 R419777 A566290 Rep: 0 R419777 A566291 Rep: 0 R419777 A566291 Rep: 0 R419777 A566293 Rep: 0 R419777 A566293 Rep: 0 R419777 A566293 Rep: 0 R419777 A566293 Rep: 0 R419777 A566293 Rep: 0 R419777 A566293 Rep: 0 R419777 A566293 Rep: 0 R419777 A566293 Rep: 0 R419777 A566293 Rep: 0 R419777 A566293 Rep: 0 R419777 A566293 Rep: 0 R419777 A566293 Rep: 0 R419777 A566293 Rep: 0 R419777 A566293 Rep: 0 R419777 A566293 Rep: 0 R419777 A566293 PERKIN CADMIUM 1 10 9.95 mg/L 1.02 mg/L 1.	A566288 Rep: 0 R419777 A566290 Rep: 0 R419777 A566291 Rep: 0 R419777 A566292 Rep: 0 R419777 A566292 Rep: 0 R419777 A566293 Rep: 0 R419777 A566293 Rep: 0 R419777 A566293 Rep: 0 R419777 A566293 Rep: 0 R419777 A566293 Rep: 0 R419777 A566293 Rep: 0 R419777 A566293 Rep: 0 R419777 A566293 Rep: 0 R419777 A566293 Rep: 0 R419777 A566293 Rep: 0 R419777 A566293 Rep: 0 R419777 A566293 Rep: 0 R419777 A566293 Rep: 0 R419777 A566293 Rep: 0 R419777 A566293 Rep: 0 R419777 A566293 Rep: 0 R419777 A566293 Rep: 0 R419777 A566293 Rep: 0 R419777 A566294 Rep: 0 R419777 A566295 Rep: 0 R419777 A566295 Rep: 0 R419777 A566296 Rep: 0 R419777 A566297 Rep: 0 R419777 A566297 Rep: 0 R419777 A566297 Rep: 0 R419777 A566290 Rep: 0 R419777 A566290 Rep: 0 R419777 A566291 Rep: 0 R419777 A566290 Rep: 0 R419777 A566290 Rep: 0 R419777 A566290 Rep: 0 R419777 A566290 Rep: 0 R419777 A566290 Rep: 0 R419777 A566290 Rep: 0 R419777 A566290 Rep: 0 R419777 A566291 Rep: 0 R419777 A566292 Rep: 0 R419777 A566293 Rep: 0 R419777 A566293 Rep: 0 R419777 A566294 Rep: 0 R419777 A566295 Rep: 0 R419777 A566295 Rep: 0 R419777 A566296 Rep: 0 R419777 A566297 Rep: 0 R419777 A566297 Rep: 0 R419777 A566290 Rep: 0 R419777 A566290 Rep: 0 R419777 A566290 Rep: 0 R419777 A566290 Rep: 0 R419777 A566290 Rep: 0 R419777 A566290 Rep: 0 R419777 A566290 Rep: 0 R419777 A566290 Rep: 0 R419777 A566290 Rep: 0 R419777 A566290 Rep: 0 R419777 A566290 Rep: 0 R419777 A566290 Rep: 0 R419777 A566290 Rep: 0 R41977 A566280 Rep: 0	

Run: R4	19695	Analyst.: M Reviewer: W		Run Date: 18-SEP-01 Review Date: 19-SEP-01
ас туре	Lab ID	Source	Anal Run	
BLA02	Q1281516	NA.	R419777	
LCS	Q1281517	SPEX	R419777	
SP 1 02	Q1281518	A566287	R419777	
DPS02	Q1281519	A566287	R419777	·
SAMPLE	A566287	Rep: 0	R419777	<u>l franktig filmer proka i kalendar projektig beligter i kalendar kalendar.</u>
SAMPLE	A566288	Rep: 0	R419777	
SAMPLE	A566289	Rep: 0	R419777	
SAMPLE	A566290	Rep: 0	R419777	
SAMPLE	A566291	Rep: 0	R419777	
SAMPLE	A566292	Rep: 0	R419777	
SAMPLE	A566293	Rep: 0	R419777	
Run: R4		Analyst.: J Reviewer: S		Run Date: 18-SEP-01 Instrument: ICP Review Date: 19-SEP-01

- 1. <u>Agreement</u>- To initiate services. Client must sign the Heritage Laboratory Services Quotation form and submit a written purchase order. Submittal of a purchase order and/or samples constitutes acceptance and acknowledgment by Client to be bound by this Agreement.
- 2. <u>Fees</u>- Heritage shall provide services at the prices stated in its Quotation. Heritage reserves the right to change prices after providing Client with a 30 day notification.
- 3. <u>Taxes- Prices do not include taxes.</u> It is the Client's responsibility to provide documentation to Heritage if the Client is exempt from tax liability.
- 4. <u>Payment- Invoices are payable on receipt.</u> All outstanding balances unpaid after 30 days of Client's receipt of invoices are subject to interest, either 1.5% per month or the amount permissible under applicable law.
- 5. <u>Samples</u> delivered to Heritage by others are taken "as is". Heritage makes no guarantee nor representation as to chain-of-custody prior to acceptance by Heritage. Heritage will not be responsible for exceeding holding times if the samples are not promptly delivered. All samples delivered on the weekends or after hours must be scheduled in advance.
- 6. <u>Sample Retention</u>- Samples and sample derivatives will be kept for 15 days after the report of analysis is made. Sample storage beyond 15 days is available at extra cost.
- 7. Sample Analysis- Heritage uses analytical methods which conform with the U.S. EPA, State Agency, American Society for Testing & Materials, Association of Official Analytical Chemists, Standard Methods for the Examination of Water and Wastewater or other recognized methodologies. Records of Heritage Laboratory procedures, including the Heritage Quality Assurance Program Plan, may be inspected by Clients.
- 8. <u>Sample Reports</u>— Heritage shall provide a written report of the results of its services which will include test results, defection limits, dates of analysis, the analyst, and analytical method references. Additional documentation and special reports are available for additional fees, but must be arranged prior to sample delivery.
- 9. <u>Confidentiality</u> Heritage shall not disclose results or any other information provided by the Client to any third party, except where required by iaw. Heritage shall have no obligation to oppose any legal proceeding taken to obtain laboratory test results of confidential information.
- 10. Additional or Different Tasks. If additional analytical testing is necessary due to sample matrix interferences, multi-phase camples or any factor not disclosed to Heiltage prior to its acceptance of the sample, the Client will be potified of the additional cost and will be given the opportunity to agree to the additional work or return of the comple.
- 11. <u>Cancellation</u> of the Olient cancels its order after the sample has been prepped and analyzed, the full feet in the mage a contest of will apply. A. 925 cancellation fee will apply if a sample is delivered and accepted addression.
- 12. <u>Indemnifications</u> Client agrees to indemnify and hold harmless Heritage from all loss, damage, cost and expenses inducting addition feet from any suit, claim or action against Heritage or which names Heritage as a particle of the content.
 - a. Heritage per correct analysis or work for the Client.
 - b. of negligent signs, errors of omissions of the Client; or
 - d. of Olland's failure to perform its obligations under this Agreement.

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	0bserved	Units	% Rec	RPD
1CS-A	Q1281990	PERKIN	CALCIUM	500		483.	mg/L	96.6	
CCV	Q1281993	INORGAN	CALCIUM	50.0		49.7	mg/L	99.4	}
BLAD1	Q1281994	NA	CALCIUM			< 0.0400	mg/L		
BLA02	Q1281516	NA NA	CALCIUM			< 0.0400	mg/L		l
LCS	Q1281517	SPEX	CALCIUM	100		102.	mg/L	102	
SAMPLE	A566287		See Cert. of Analysis, Rep: 0						
SPI02	Q1281518	A566287	CALCIUM	115.	100	216.	mg/L	101	
DPS02	Q1281519	A566287	CALCIUM	115.	100	215.	mg/L	100	1
CCV	Q1281995	INORGAN	CALCIUM	50.0		49.4	mg/L	98.8	
BLA01	Q1281996	NA	CALCIUM			< 0.0400	mg/L		1
SAMPLE	A566288		See Cert, of Analysis, Rep: 0						
SAMPLE	A566289		See Cert. of Analysis, Rep: 0						l ,,
SAMPLE	A566290		See Cert. of Analysis, Rep: 0						
SAMPLE	A566291		See Cert. of Analysis, Rep: 0						ł
SAMPLE	A566292		See Cert. of Analysis, Rep: 0						
SAMPLE	A566293		See Cert. of Analysis, Rep: 0						
CCV	01281997	INORGAN	CALCIUM	50.0		49.1	mg/L	98.2	
BLA01	Q1281998	NA	CALCIUM			< 0.0400	mg/L		
ICS-A	Q1282022	PERKIN-	CALCIUM	500		478.	mg/L	95.6	1

Run: Re	419695	Analyst.: P Reviewer: N		Run Date: 18 Review Date: 19		·				
QC Type	Lab ID	Source	Anal Run							
BLA02	Q1281516	NA	R419777							
LCS	Q1281517	SPEX	R419777							
SPI02	Q1281518	A566287	R419777					W. # 1711.		}
DPS02	Q1281519	A566287	R419777			. ·				
SAMPLE	A566287	Rep: 0	R419777			•				
SAMPLE	A566288	Rep: 0	R419777							٠
SAMPLE	A566289	Rep: 0	R419777							
SAMPLE	A566290	Rep: 0	R419777							
SAMPLE	A566291	Rep: 0	R419777				18-90/48-0-18			****
SAMPLE	A566292	Rep: 0	R419777							
SAMPLE	A566293	Rep: 0	R419777						<u> </u>	<u> </u>
Run: R4	419777	Rep: 0 Analyst.: Reviewer: S	J KRAMER	Run Date: 18 Review Date: 19		Instrument:	ICP			
Run: R4	419777 ICAL	Analyst.: .	J KRAMER			Instrument:	ICP Observed	Units	% Rec	RPD
Run: R4 ANALYTI	419777 ICAL	Analyst.: . Reviewer: S	J KRAMER S ENDERSON		-SEP-01			Units	% Rec 102	RPD
Run: R4 ANALYTI QC Type	419777 ICAL Lab ID	Analyst.: Reviewer: S	J KRAMER S ENDERSON Parameter		-SEP-01		Observed		1	RPD
Run: R4 ANALYTI QC Type ICV01	419777 ICAL Lab ID 01281983	Analyst.: Reviewer: S Source	J KRAMER S ENDERSON Parameter CHROMIUM		True/Sampl		Observed	mg/L	102	RPD
Run: R4 ANALYTI DC Type ICV01 CDL01 ICS-A	419777 ICAL Lab ID 01281983 Q1281988	Analyst.: Reviewer: S Source PERKIN INORGAN	J KRAMER S ENDERSON Parameter CHROMIUM		True/Sampl		Observed 1.02 9.90 0.484 4.98	mg/L mg/L	102 99	RPD
Run: R4 ANALYTI QC Type ICV01 CDL01 ICS-A CCV	419777 ICAL Lab ID 01281983 01281988 01281990 01281993 01281994	Analyst.: Reviewer: S Source PERKIN INORGAN	J KRAMER S ENDERSON Parameter CHROMIUM CHROMIUM		True/Sampl 10 0.500		Observed 1.02 9.90 0.484	mg/L mg/L mg/L	102 99 96.8	RPD
Run: R4 ANALYTI DC Type ICV01 CDL01 ICS-A CCV	419777 ICAL Lab ID 01281983 01281988 01281990 01281993	Analyst.: Reviewer: S Source PERKIN INORGAN PERKIN INORGAN	J KRAMER S ENDERSON Parameter CHROMIUM CHROMIUM CHROMIUM CHROMIUM		True/Sampl 10 0.500		Observed 1.02 9.90 0.484 4.98	mg/L mg/L mg/L mg/L	102 99 96.8	RPD
Run: R4 ANALYTI PC Type ICV01 CDL01 ICS-A CCV BLA01	419777 ICAL Lab ID 01281983 01281988 01281990 01281993 01281994	Analyst:: Reviewer: S Source PERKIN INORGAN PERKIN INORGAN	J KRAMER S ENDERSON Parameter CHROMIUM CHROMIUM CHROMIUM CHROMIUM CHROMIUM		True/Sampl 10 0.500		Observed 1.02 9.90 0.484 4.98	mg/L mg/L mg/L mg/L mg/L	102 99 96.8	RPD
Run: RA ANALYTI DC Type (CV01 CDL01 ICS-A CCV BLA01 BLA02 CS	419777 ICAL Lab ID 01281983 01281988 01281990 01281993 01281994 01281516	Analyst:: Reviewer: S Source PERKIN INORGAN PERKIN INORGAN NA	J KRAMER S ENDERSON Parameter CHROMIUM CHROMIUM CHROMIUM CHROMIUM CHROMIUM CHROMIUM CHROMIUM		True/Sampl 10 0:500 5.00		Observed 1.02 9.90 0.484 4.98 < 0.00400 < 0.00400	mg/L mg/L mg/L mg/L mg/L mg/L	102 99 96.8 99.6	RPD
Run: R4 ANALYTI DC Type (CV01 CDL01 (CS-A CCV BLA01 BLA02 CCS SAMPLE	419777 ICAL 01281983 01281988 01281990 01281993 01281994 01281516	Analyst:: Reviewer: S Source PERKIN INORGAN PERKIN INORGAN NA	J KRAMER S ENDERSON Parameter CHROMIUM CHROMIUM CHROMIUM CHROMIUM CHROMIUM CHROMIUM CHROMIUM	Review Date: 19	True/Sampl 10 0:500 5.00		Observed 1.02 9.90 0.484 4.98 < 0.00400 < 0.00400	mg/L mg/L mg/L mg/L mg/L mg/L	102 99 96.8 99.6	RPD
RUN: RAANALYTI QC Type ICV01 CDL01 ICS-A CCCV BLA01 BLA02 LCS SAMPLE SPI02	419777 ICAL Lab ID 01281983 01281988 01281990 01281993 01281994 01281516 01281517 A566287	Analyst:: Reviewer: S Source PERKIN INORGAN PERKIN INORGAN NA NA SPEX	J KRAMER S ENDERSON Parameter CHROMIUM CHROMIUM CHROMIUM CHROMIUM CHROMIUM CHROMIUM CHROMIUM CHROMIUM CHROMIUM See Cert.	Review Date: 19	True/Sampl 10 0.500 5.00	Spike Val	Observed 1.02 9.90 0.484 4.98 < 0.00400 < 0.00400	mg/L mg/L mg/L mg/L mg/L mg/L mg/L	102 99 96.8 99.6	RPD
Run: R4 ANALYTI DC Type ICV01 ICS-A CCV BLA01 BLA02 CCS SAMPLE SPI02 DPS02	419777 ICAL Lab ID 01281983 01281988 01281990 01281993 01281516 01281517 A566287 01281518	Analyst:: Reviewer: S Source PERKIN INORGAN PERKIN INORGAN NA NA SPEX	J KRAMER S ENDERSON Parameter CHROMIUM CHROMIUM CHROMIUM CHROMIUM CHROMIUM CHROMIUM CHROMIUM CHROMIUM CHROMIUM CHROMIUM CHROMIUM CHROMIUM CHROMIUM CHROMIUM	Review Date: 19	True/Sampl 10 0:500 5:00	Spike Val	Observed 1.02 9.90 0.484 4.98 <0.00400 <0.00400 2.02	mg/L mg/L mg/L mg/L mg/L mg/L mg/L	102 99 96.8 99.6	
	419777 ICAL Lab ID 01281983 01281998 01281990 01281993 01281994 01281516 01281517 A566287 01281518 01281519	Analyst:: Reviewer: S Source PERKIN INORGAN PERKIN INORGAN NA SPEX A566287	J KRAMER S ENDERSON Parameter CHROMIUM CHROMIUM CHROMIUM CHROMIUM CHROMIUM CHROMIUM CHROMIUM CHROMIUM CHROMIUM CHROMIUM CHROMIUM CHROMIUM CHROMIUM CHROMIUM CHROMIUM CHROMIUM	Review Date: 19	True/Sampl 10 0.500 5.00 2.00	Spike Val	Observed 1.02 9.90 0.484 4.98 <0.00400 <0.00400 2.02 0.205 0.205	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	102 99 96.8 99.6 101 102.5 102.5	

- 1. <u>Agreement</u>- To initiate services. Client must sign the Heritage Laboratory Services Quotation form and submit a written purchase order. Submittal of a purchase order and/or samples constitutes acceptance and acknowledgment by Client to be bound by this Agreement.
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- 3. Taxes- Prices do not include taxes. It is the Client's responsibility to provide documentation to Heritage if the Client is exempt from tax liability.
- 4. <u>Payment- invoices are payable on receipt.</u> All outstanding balances unpaid after 30 days of Client's receipt of invoices are subject to interest, either 1.5% per month or the amount permissible under applicable law.
- 5. <u>Samples</u> Samples delivered to Heritage by others are taken "as is". Heritage makes no guarantee nor representation as to chain-of-custody prior to acceptance by Heritage. Heritage will not be responsible for exceeding holding times if the samples are not promptly delivered. All samples delivered on the weekends or after hours must be scheduled in advance.
- 6. <u>Sample Retention</u>- Samples and sample derivatives will be kept for 15 days after the report of analysis is made. Sample storage beyond 15 days is available at extra cost.
- 7. <u>Sample Analysis</u>— Heritage uses analytical methods which conform with the U.S. EPA, State Agency, American Society for Testing & Materials, Association of Official Analytical Chemists, Standard Methods for the Examination of Water and Wastewater or other recognized methodologies. Records of Heritage Laboratory procedures, including the Heritage Quality Assurance Program Plan, may be inspected by Clients.
- 8. <u>Sample Reports</u>- Herbage shall provide a written report of the results of its services which will include test results, detection limits, dates of analysis, the analyst, and analytical method references. Additional documentation and special reports are available for additional fees, but must be arranged prior to sample delivery.
- 9. <u>Confidentially</u> Heritage shall not disclose results or any other information provided by the Client to any third party, except where required by law. Heritage shall have no obligation to oppose any legal proceeding taken to obtain laboratory test results of confidential information.
- 10. Additional of Different Tasks If additional analytical testing is necessary due to sample matrix interferences, multi-phase samples or any factor not disclosed to Heritage prior to its acceptance of the sample, the Client will be defined of the additional cost and will be given the apportunity to agree to the additional work or return of the complete.
- 11. Candal authorished the Chent candals its order after the sample has been prepped and analyzed, the full fee in hernages of the sample of SDS candallation fee will apply if a sample is delivered and accepted at the taboration.
- 12. <u>Indemnification</u>— Them agrees to indemnify and hold harmless Heritage from all loss, damage, cost and expenses the unity aftermary sufficient or action against Heritage or which names Heritage as a participation.
 - a. Heritage certificities analysis of work for the Ollent.
 - b. of replicent abla errors or omissions of the Client; or
 - of Other tis falure to perform its obligations under this Agreement.

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
SAMPLE	A566289		See Cert. of Analysis, Rep: 0						
SAMPLE	A566290		See Cert. of Analysis, Rep: 0						
SAMPLE	A566291		See Cert. of Analysis, Rep: 0						
SAMPLE	A566292		See Cert. of Analysis, Rep: 0						
SAMPLE	A566293		See Cert. of Analysis, Rep: 0			tan tan dari dari dari dari	177 187		
ccv	Q1281997	INORGAN	CHROMIUM	5.00		4.96	mg/L	99.2	
BLA01	01281998	NA:	CHROMIUM			< 0.00400	mg/L		
CDL01	Q1282021	PERKIN	CHROMIUM	0.020		0.0202	mg/L	101	
ICS-A	Q1282023	PERKIN	CHROMIUM	0.500		0.470	mg/L	94	

Run: R41		ICP ACI	D DIGESTION	OF AQUEOUS	SAMPLES SW8	346-3005 <i>A</i>	9000040099 viv.2000 9v	111.3		SWC J
PREP	19695	Analyst.: N		Run Date: Review Date:					<u> </u>	
QC Type	Lab ID	Source	Anal Run							
BLA02	Q1281516	NA HILL	R419777							
LCS	Q1281517	SPEX	R419777							
SPI02	Q1281518	A566287	R419777							
DPS02	Q1281519	A566287	R419777							
SAMPLE	A566287	Rep: 0	R419777		***************************************					M.H.H.
SAMPLE	A566288	Rep: 0	R419777							
SAMPLE	A566289	Rep: 0	R419777							
SAMPLE	A566290	Rep: 0	R419777							
SAMPLE	A566291	Rep: 0	R419777							
SAMPLE	A566292	Rep: 0	R419777			,				
SAMPLE	A566293	Rep: 0	R419777							Kara si
Run: R41 ANALYTIC		Analyst.: . Reviewer: S		Run Date: Review Date:	18-SEP-01 19-SEP-01	Instrument:	ICP			_
QC Type L	ab ID	Source	Parameter	-	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q1281983	PERKIN	COBALT		1		1.04	mg/L	104	
CDL01	Q1281988	INORGAN	COBALT		10	1	10.0	mg/L	100	
I CS-A	Q1281990	PERKIN	COBALT		0.500		0.483	mg/L	96.6	
CCV	Q1281993	INORGAN	COBALT		5.00		5.04	mg/L	100.8	
BLA01	Q1281994	NA	COBALT			(####################################	< 0.00400	mg/L		100000
BLA02	Q1281516	NA	COBALT				< 0.00400	mg/L		
LCS	Q1281517	SPEX	COBALT		5.00		5.14	mg/L	102.8	l dignidad
SAMPLE	A566287		See Cert. of A	nalysis, Rep: 0						
SP102	Q1281518	A566287	COBALT		0	0.500	0.512	mg/L	102.4	
DPS02	Q1281519	A566287	COBALT		0	0.500	0.515	mg/L	103	.6
CCV	Q1281995	INORGAN	COBALT		5.00		5.03	mg/L	100.6	
BLA01	Q1281996	NA	COBALT				< 0.00400	mg/L		
SAMPLE	A566288		See Cert. of A	nalysis, Rep: 0		fragiliti				
SAMPLE	A566289		See Cert. of A	nalysis, Rep: 0						
SAMPLE	A566290	A. S. AVIII	See Cert. of A	nalysis, Rep: 0		l sattéma				had vier
SAMPLE	A566291		See Cert. of A	nalysis, Rep: 0		1]]
SAMPLE	A566292	v	See Cert. of A	nalysis, Rep: 0		Himbye				BARKA.
SAMPLE	A566293		See Cert. of A	nalysis, Rep: 0						' ' ' '
ccv	01281997	INORGAN	COBALT		5.00		5.02	mg/L	100.4	lanai z
BLA01	Q1281998	NA	COBALT			1	< 0.00400	mg/L]	
CDL01	Q1282021	PERKIN	COBALT		0.100	ļ	0.104	mg/L	104	
ICS-A	01282023	PERKIN	COBALT		0.500		0.474	mg/L	94.8	

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- 12.1 Incernalization Chemicagness is indemnify and hold harmless Heritage from all loss, damage, cost and expenses the using attemney fees from any suit claim or action against Heritage or which names Heritage as a particular test of the contex
 - a. Feritable per correct analysis or work for the Client.
 - b. of negligent acts, errors or omissions of the Client; or
 - coof Client's failure to perform its obligations under this Agreement.

		846-6010	0000 N 00.00000000 17900 O				2 20 1 2 20000 m.	1112.3		adegalis Luk statif
Prep:	FAA OR	ICP ACI	D DIGESTI	ON OF AQUEOUS	SAMPLES SW8	346-3005 <i>/</i>	4			
Run: R419 PREP	695	Analyst.: N Reviewer: N		Run Date: Review Date:		-				
QC Type	Lab ID	Source	Anal Run							
BLA02	01281516	NA	R419777		**************************************	1111111 , , , , , , , , , , , , , , , ,				
LCS	Q1281517	SPEX	R419777							
SP102	01281518	A566287	R419777							
DPS02	Q1281519	A566287	R419777							
SAMPLE	A566287	Rep: 0	R419777							
SAMPLE	A566288	Rep: 0	R419777							
SAMPLE	A566289	Rep: 0	R419777							
SAMPLE	A566290	Rep: 0	R419777							
SAMPLE	A566291	Rep: 0	R419777							
SAMPLE	A566292	Rep: 0	R419777							
SAMPLE	A566293	Rep: 0	R419777							
Run: R419 ANALYTICA		Analyst.: . Reviewer: \$		Run Date: Review Date:		Instrument:	ICP			
QC Type La	b ID	Source	Parameter	-	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	21281983	PERKIN	COPPER		1		1.01	mg/L	101	
CDL01	21281988	INORGAN	COPPER		10		9.90	mg/L	99	
ICS-A	1281990	PERKIN	COPPER		0.500		0.544	mg/L	108.8	
CCV	1281993	INORGAN	COPPER		5.00		5.06	mg/L	101.2	1
BLA01	1281994	NA	COPPER				< 0.00800	mg/L		
BLA02	21281516	NA	COPPER				< 0.00800	mg/L		
LCS	1281517	SPEX	COPPER		2.50		2.58	mg/L	103.2	
	4566287			f Analysis, Rep: 0						1
SP102	1281518	A566287	COPPER		0	0.250	0.268	mg/L	107.2	
	1281519	A566287	COPPER		0	0.250	0.265	mg/L	106	1.1
CCV	1281995	INORGAN	COPPER		5.00		5.08	mg/L	101.6	
	1281996	NA	COPPER				< 0.00800	mg/L	·	
	A566288			f Analysis, Rep: 0		***************************************				
	4566289	•		f Analysis, Rep: 0				· .		ŀ
	1566290		***************************************	f Analysis, Rep: 0						
	1566291			f Analysis, Rep: 0		<u>.</u>				
	566292			f Analysis, Rep: 0						
SAMPLE /	1566293	·	See Cert. o	f Analysis, Rep: 0	,					
	1281997	INORGAN	COPPER		5.00		5.11	mg/L	102.2	
BLA01	1281998	NA	COPPER			l	< 0.00800	mg/L		
CDL01	1282021	PERKIN	COPPER		0.050		0.0508	mg/L	101.6	
ICS-A C	1282023	PERKIN	COPPER		0.500		0.548	mg/L	109.6	1

sa wilatan 199	ICP SW84 : FAA OR	/00.0000000 /di./01./00	beuveed puuripada papeauri	M115.3 ION OF AQUEOUS SAMPLES SW846-3005A
Run: R4	419695	Analyst.: N Reviewer: N		Run Date: 18-SEP-01 Review Date: 19-SEP-01
QC Type	Lab ID	Source	Anal Run	
BLA02	01281516	NA	R419777	
LCS	Q1281517	SPEX	R419777	
SP102	Q1281518	A566287	R419777	
DPS02	Q1281519	A566287	R419777	
SAMPLE	A566287	Rep: 0	R419777	

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 - of of Obside rations to perform its obligations under this Agreement.

QC Type	Lab ID	Source	Anal Run			 		<u> </u>		
SAMPLE	A566288	Rep: 0	R419777			7				
SAMPLE	A566289	Rep: 0	R419777							Farr (6)
SAMPLE	A566290	Rep: 0	R419777		2 M. W. (18)	1.4.46.000		11		
SAMPLE	A566291	Rep: 0	R419777							
SAMPLE	A566292	Rep: 0	R419777							2002.200 2002.2002.2002.2002.2002.2002.
SAMPLE	A566293	Rep: 0	R419777			1 4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
Run: R4		Analyst.: Reviewer: S		Run Date: Review Date:		nstrument:	ICP			
QC Type	Lab ID	Source	Parameter		True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q1281983	PERKIN	IRON		1	· · · · · · · · · · · · · · · · · · ·	1.03	mg/L	103	
CDL01	Q1281988	INORGAN	IRON		10		9.99	mg/L	99.9	
ICS-A	Q1281990	PERKIN	IRON		200		188.	mg/L	94	
CCV	Q1281993	INORGAN	IRON		5.00		5.06	mg/L	101.2	
BLA01	Q1281994	NA:	IRON				< 0.0100	mg/L		
BLA02	Q1281516	NA	IRON				< 0.0100	mg/L		
LCS	Q1281517	SPEX	IRON		10.0		10.1	mg/L	101	No here
SAMPLE	A566287			f Analysis, Rep: 0]
SP102	Q1281518	A566287	IRON		6.23	1.00	7.08	mg/L	85	la süni
DPS02	01281519	A566287	IRON		6.23	1.00	7.04	mg/L	81	4.8
CCV	Q1281995	INORGAN	IRON		5.00		5.06	mg/L	101.2	
BLA01	Q1281996	NA	IRON	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		eer e me er it int	< 0.0100	mg/L		
SAMPLE	A566288		,	f Analysis, Rep: 0						
SAMPLE SAMPLE	A566289 A566290			f Analysis, Rep: 0	1	***************************************				E - E
SAMPLE	A566291			f Analysis, Rep: 0 f Analysis, Rep: 0						
SAMPLE	A566292			f Analysis, Rep: 0						A GALLANIA
SAMPLE	A566293			f Analysis, Rep. 0					IIa + +	Y
CCV	Q1281997	INORGAN	IRON	i matysis, kepi U	5.00		5.04	mg/L	100.8	
BLA01	Q1281998	NA	IRON		7.00	remak	< 0.0100	mg/L	100.5	
ICS-A	01282022	PERKIN-	IRON		200		189.	mg/L	94.5	
	TILOLUEL	LI SINKAW								

Run: Re	419695	Analyst.: M Reviewer: W			Run Date. Review Da					ı			
QC Type	Lab ID	Source	Anal Run										
SAMPLE	A566287	Rep: 0	R419907	in yanaw	**								
SAMPLE	A566288	Rep: 0	R419807										
SAMPLE	A566289	Rep: 0	R419807	A STATE		w ind							
SAMPLE	A566290	Rep: 0	R419907		trans of mini	************							
SAMPLE	A566291	Rep: 0	R419807										eggl.£
SAMPLE	A566292	Rep: 0	R419807										
SAMPLE	A566293	Rep: 0	R419807		88.11 1.84. 88.1 1888								
BLA02	Q1281520	NA	R419807			* VV ****							
cs	91281521	INORGAN	R419807	30000	· · · · · · · · · · · · · · · · · · ·				v., 274.			38,000 An	:
SP102	Q1281522	A566287	R419807	(177 7047	W 22W ' 2					160 - 150 - 5	v 1000
DPS02	Q1281523	A566287	R419807	k - 6 %		e Kingara					<u>. 21 - 23 - 5</u>		
Run: R4	•	Analyst.: D Reviewer: S			un Date Leview Dat			Instru		RACE ICP			
C Type	Lab ID	Source	Parameter				True/Samp	l Spik	e Val	Observed	Units	% Rec	RPD
CV01	Q1282202	PERKIN-	LEAD	1.3.3						0.0503	mg/L	100.6	
CDL01	Q1282207	INORGAN	LEAD	1 7 7 7 7			0.5	7.00		0.504	mg/L	100.8	1200 000

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QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICS-A	01282209	PERKIN	LEAD	0.05		0.0430	mg/L	86	
BLA02	Q1281520	NA	LEAD			< 0.00200	mg/L		
LCS	Q1281521	INORGAN	LEAD	0.5		0.572	mg/L	114.4	
SPI02	Q1281522	A566287	LEAD	0.00649	0.5	0.536	mg/L	105.9	
DPS02	Q1281523	A566287	LEAD	0.00649	0.5	0.549	mg/L	108.5	2.4
CCV	Q1282216	INORGAN	LEAD	0.1		0.109	mg/L	109	
BLA01	Q1282217	NA	LEAD			< 0.00200	mg/L		
SAMPLE	A566288		See Cert. of Analysis, Rep: 0						
SAMPLE	A566289		See Cert. of Analysis, Rep: 0						
SAMPLE	A566291		See Cert. of Analysis, Rep: 0	1					
SAMPLE	A566292		See Cert. of Analysis, Rep: D						
SAMPLE	A566293		See Cert. of Analysis, Rep: 0	l					
CCV	Q1282218	INORGAN	LEAD	0.1		0.113	mg/L	113	
BLA01	Q1282219	NA	LEAD			< 0.00200	mg/L		İ
CDL01	Q1282222	PERKIN-	LEAD	0.006		0.00677	mg/L	112.8	
ICS-A	Q1282224	PERKIN	LEAD	0.05		0.0460	mg/L	92	
Run: R4		Analyst.: Reviewer: :	D DRABENSTOTT Run Date: 20-SE S ENDERSON Review Date: 21-SE		nstrument:	TRACE ICP			
I CVO1	Q1282829	PERKIN-	LEAD	0.05		0.0519	mg/L	103.8	327
CDL01	Q1282834	INORGAN	LEAD	0.5		0.496	mg/L	99.2	
ICS-A	01282836	PERKIN	LEAD	0.05		0.0468	mg/L	93.6	
CCV	Q1282841	INORGAN	LEAD	0.1		0.103	mg/L	103	
BLA01	Q1282842	NA	LEAD			< 0.00200	mg/L		
SAMPLE	A566287		See Cert. of Analysis, Rep. 0]				ļ ļ	
SAMPLE	A566290		See Cert. of Analysis, Rep: 0						
	Q1282843	INORGAN	LEAD	0.1		0.102	mg/L	102	
CCV	W1202043]					• · · · · · · · · · · · · · · · · · · ·		t:::::::::::::::::::::::::::::::::::::
CCV BLA01	Q1282844	NA	LEAD			0.00236	mg/L		
			LEAD LEAD	0.006		0.00236 0.00807	mg/L mg/L	134.5	

Run: R4' PREP	19695	Analyst.: Reviewer:	M HALL W WATNESS		Date: iew Date:							•
QC Type	Lab ID	Source	Anal Run									_
BLA02	Q1281516	NA	R419777							41 - 1444.61		
LCS	Q1281517	SPEX	R419777									
	Q1281518		R419777							1 (1111) 1 7		
DPS02	Q1281519	A566287	R419777					•				
SAMPLE	A566287	Rep: 0	R419777	ti avalla.								
SAMPLE	A566288	Rep: 0	R419777							i esser e ani. Ai e i		
SAMPLE	A566289	Rep: 0	R419777			1.7 1	W.E. 79					
SAMPLE	A566290	Rep: 0	R419777				an incan					
SAMPLE	A566291	Rep: 0	R419777						EALT DAMELIA			443,000
SAMPLE	A566292	Rep: 0	R419777	t in the way	eline or more	yyaya yay		ny navalanatika		raar mii karawaa r		r grown
SAMPLE	A566293	Rep: 0	R419777	1 h	<u> </u>	40 0	<u></u>					20 10 14
Run: R41		Analyst.: Reviewer:			Date: iew Date:			Instrument:	I CP			
QC Type L	ab ID	Source	Parameter			Tru	ie/Sampl	l Spike Val	Observed	Units	% Rec	RPD
I CV01	Q1281985	SPEX	MAGNESIUM	·		2	20		20.0	mg/L	100	
ICS-A	Q1281990	PERKIN	MAGNESIUM			5	00		491.	mg/L	98.2	
CCV	01281993	INORGAN	MAGNESIUM			5	0.0		50.5	mg/L	101	150,700

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 - all reniable venturied analysis of work for the Olient.
 - b. of neplicent acts, errors or omissions of the Client; or
 - c. of Client's failure to perform its obligations under this Agreement.

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	0bserved	Units	% Rec	RPD
BLA01	01281994	NA	MAGNESIUM			< 0.0400	mg/L		
BLA02	Q1281516	NA	MAGNESIUM			< 0.0400	mg/L		}
LCS	Q1281517	SPEX	MAGNESIUM	100		103.	mg/L	103	ide tyd
SAMPLE	A566287		See Cert. of Analysis, Rep: 0						ĺ
SPI02	Q1281518	A566287	MAGNESIUM	39.9	100	147.	mg/L	107.1	
DPS02	Q1281519	A566287	MAGNESIUM	39.9	100	145.	mg/L	105.1	1.9
CCV	01281995	INORGAN	MAGNESIUM	50.0		50.6	mg/L	101.2	4 4.7
BLA01	Q1281996	NA T	MAGNESIUM			< 0.0400	mg/L		
SAMPLE	A566288		See Cert. of Analysis, Rep: 0						
SAMPLE	A566289		See Cert. of Analysis, Rep: 0						
SAMPLE	A566290		See Cert, of Analysis, Rep: 0						
SAMPLE	A566291		See Cert. of Analysis, Rep: 0	ļ	[
SAMPLE	A566292		See Cert. of Analysis, Rep: 0						
SAMPLE	A566293		See Cert. of Analysis, Rep: 0						
CCV	Q1281997	INORGAN	MAGNESIUM	50.0		50.3	mg/L	100.6	
BLA01	Q1281998	NA	MAGNESIUM			< 0.0400	mg/L	ļi	
ICS-A	Q1282022	PERKIN-	MAGNESIUM	500		488.	mg/L	97.6	

Run: R PREP	419695	Analyst.: Reviewer:			Run Date: Review Date:					••	
QC Type	Lab ID	Source	Anal Run								
BLA02	Q1281516	NA	R419777	7				Time And And		din a yi r.	
LCS	Q1281517	SPEX	R419777	l							
SPI02	Q1281518	A566287	R419777				*****				
DPS02	Q1281519	A566287	R419777								
SAMPLE	A566287	Rep: 0	R419777							NY. Niale Div Galamana A.K.	
SAMPLE	A566288	Rep: 0	R419777								
SAMPLE	A566289	Rep: 0	R419777	2							
SAMPLE	A566290	Rep: 0	R419777							· · ·	
SAMPLE	A566291	Rep: 0	R419777								
SAMPLE	A566292	Rep: 0	R419777								
SAMPLE	A566293	Rep: 0	R419777	siliki s		ACC 2000 10 10 10 10 10 10 10 10 10 10 10 10					
Run: R		Analyst.: Reviewer:			Run Date: Review Date:		Instrument:	ICP		,	
QC Type	Lab ID	Source	Parameter			True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q1281983	PERKIN	MANGANESE								
	[7 Juli		a hairigh a n chaireadh	Parish Ph. No.	1.02	mg/L	102	95. s.
CDL01	Q1281988	INORGAN	MANGANESE	v Auh		10	diamen haller	10.0	mg/L	100	
	Q1281990					10 0.500		10.0 0.495		1	
ICS-A	Q1281990 Q1281993	INORGAN PERKIN INORGAN	MANGANESE MANGANESE MANGANESE			10		10.0 0.495 5.05	mg/L	100	
ICS-A CCV BLA01	Q1281990 Q1281993 Q1281994	INORGAN PERKIN INORGAN	MANGANESE MANGANESE MANGANESE MANGANESE			10 0.500		10.0 0.495 5.05 < 0.00400	mg/L mg/L mg/L	100 99	
ICS-A CCV BLA01 BLA02	Q1281990 Q1281993 Q1281994 Q1281516	INORGAN PERKIN INORGAN NA	MANGANESE MANGANESE MANGANESE MANGANESE MANGANESE			10 0.500 5.00		10.0 0.495 5.05 < 0.00400 < 0.00400	mg/L mg/L mg/L mg/L mg/L	100 99 101	
ICS-A CCV BLA01 BLA02 LCS	Q1281990 Q1281993 Q1281994 Q1281516 Q1281517	INORGAN PERKIN INORGAN	MANGANESE MANGANESE MANGANESE MANGANESE MANGANESE MANGANESE	e de Vilorie Vijeke		10 0.500		10.0 0.495 5.05 < 0.00400	mg/L mg/L mg/L	100 99	
ICS-A CCV BLA01 BLA02 LCS SAMPLE	01281990 01281993 01281994 01281516 01281517 A566287	INORGAN PERKIN INORGAN NA NA SPEX	MANGANESE MANGANESE MANGANESE MANGANESE MANGANESE MANGANESE See Cert.		alysis, Rep: 0	10 0.500 5.00		10.0 0.495 5.05 < 0.00400 < 0.00400 5.09	mg/L mg/L mg/L mg/L mg/L	100 99 101 101.8	
ICS-A CCV BLA01 BLA02 LCS SAMPLE SPI02	01281990 01281993 01281994 01281516 01281517 A566287 01281518	INORGAN PERKIN INORGAN NA NA SPEX A566287	MANGANESE MANGANESE MANGANESE MANGANESE MANGANESE See Cert. MANGANESE		alysis, Rep: O	10 0.500 5.00 5.00	0.500	10.0 0.495 5.05 < 0.00400 < 0.00400 5.09	mg/L mg/L mg/L mg/L mg/L mg/L mg/L	100 99 101 101.8	
ICS-A CCV BLA01 BLA02 LCS SAMPLE SPI02 DPS02	Q1281990 Q1281993 Q1281994 Q1281516 Q1281517 A566287 Q1281518 Q1281519	INORGAN PERKIN INORGAN NA NA SPEX A566287	MANGANESE MANGANESE MANGANESE MANGANESE MANGANESE See Cert. MANGANESE MANGANESE	* *	alysis, Rep: 0	10 0.500 5.00 5.00 0.137 0.137	0.500 0.500	10.0 0.495 5.05 < 0.00400 < 0.00400 5.09 0.646	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	100 99 101 101.8 101.8	.8
ICS-A CCV BLA01 BLA02 LCS SAMPLE SP102 DPS02	Q1281990 Q1281993 Q1281994 Q1281516 Q1281517 A566287 Q1281518 Q1281519 Q1281995	INORGAN PERKIN INORGAN NA SPEX A566287 A566287 INORGAN	MANGANESE MANGANESE MANGANESE MANGANESE MANGANESE See Cert. MANGANESE MANGANESE MANGANESE MANGANESE MANGANESE	* *	alysis, Rep: 0	10 0.500 5.00 5.00	· · · · · · · · · · · · · · · · · · ·	10.0 0.495 5.05 < 0.00400 < 0.00400 5.09 0.646 0.650 5.04	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	100 99 101 101.8	.8
ICS-A CCV BLA01 BLA02 LCS SAMPLE SPI02 DPS02 CCV	Q1281990 Q1281993 Q1281994 Q1281516 Q1281517 A566287 Q1281518 Q1281519 Q1281995 Q1281996	INORGAN PERKIN INORGAN NA NA SPEX A566287	MANGANESE MANGANESE MANGANESE MANGANESE MANGANESE See Cert. MANGANESE MANGANESE MANGANESE MANGANESE MANGANESE MANGANESE	awaa Aff		10 0.500 5.00 5.00 0.137 0.137	· · · · · · · · · · · · · · · · · · ·	10.0 0.495 5.05 < 0.00400 < 0.00400 5.09 0.646	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	100 99 101 101.8 101.8	**************************************
ICS-A CCV BLA01 BLA02 LCS SAMPLE SPI02 DPS02 CCV BLA01 SAMPLE	Q1281990 Q1281994 Q1281516 Q1281517 A566287 Q1281518 Q1281519 Q1281995 Q1281996 A566288	INORGAN PERKIN INORGAN NA SPEX A566287 A566287 INORGAN	MANGANESE MANGANESE MANGANESE MANGANESE MANGANESE MANGANESE MANGANESE MANGANESE MANGANESE MANGANESE MANGANESE MANGANESE SEE CETT.	of Ana	ılysis, Rep: 0	10 0.500 5.00 5.00 0.137 0.137	· · · · · · · · · · · · · · · · · · ·	10.0 0.495 5.05 < 0.00400 < 0.00400 5.09 0.646 0.650 5.04	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	100 99 101 101.8 101.8	**************************************
CDL01 ICS-A CCV BLA01 BLA02 LCS SAMPLE SPI02 DPS02 CCV BLA01 SAMPLE SAMPLE SAMPLE	Q1281990 Q1281993 Q1281994 Q1281516 Q1281517 A566287 Q1281518 Q1281519 Q1281995 Q1281996	INORGAN PERKIN INORGAN NA SPEX A566287 A566287 INORGAN	MANGANESE MANGANESE MANGANESE MANGANESE MANGANESE MANGANESE MANGANESE MANGANESE MANGANESE MANGANESE MANGANESE MANGANESE MANGANESE See Cert. See Cert.	of Ana		10 0.500 5.00 5.00 0.137 0.137	· · · · · · · · · · · · · · · · · · ·	10.0 0.495 5.05 < 0.00400 < 0.00400 5.09 0.646 0.650 5.04	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	100 99 101 101.8 101.8	**************************************

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 - a. Heriads ben't med analysis of won for the Client.
 - b. of neplicent agra, errors or omissions of the Client; or
 - coof Olient's failure to perform its obligations under this Agreement.

QC Type	Lab IĐ	Source		True/Sampl	Spike Val	0bserved	Units	% Rec	RPD
SAMPLE	A566291		See Cert. of Analysis, Rep: 0		1 1000000000000000000000000000000000000				
SAMPLE	A566292		See Cert. of Analysis, Rep: 0				• • • • • • • • • • • • • • • • • • • •		
SAMPLE	A566293		See Cert. of Analysis, Rep: 0						
ccv	01281997	INORGAN	MANGANESE	5.00		5.00	mg/L	100	
BLA01	Q1281998	NA	MANGANESE			< 0.00400	mg/L		
CDL01	Q1282021	PERKIN	MANGANESE	0.030		0.0310	mg/L	103.3	
ICS-A	01282023	PERKIN	MANGANESE	0.500		0.480	mg/L	96	

Run: R PREP	419655	Analyst.: Reviewer:		Run Date: 1 Review Date: 1			<u></u>			
QC Type	Lab ID	Source	Anal Run							
LCS	Q1281140		R419724							
BLA02	Q1281141		R419724			•				
SPI02	Q1281142	A566287	R419724			***************************************				
DPS02	Q1281143	A566287	R419724	•						
SAMPLE	A566287	Rep: 0	R419724						1944 A.A.A.	
SAMPLE	A566288	Rep: 0	R419724			•				
SAMPLE	A566289	Rep: 0	R419724							
SAMPLE	A566290	Rep: 0	R419724							
SAMPLE	A566291	Rep: 0	R419724					,,,, . ,,,,,, . ,,,,,,,,,,,,,,,,		
SAMPLE	A566292	Rep: 0	R419724			<u> </u>	4.			
SAMPLE	A566293	Rep: 0	R419724					· · · · · · · · · · · · · · · · · · ·		
Run: R		Analyst.: Reviewer:		Run Date: 1 Review Date: 1		nstrument:	CVAA			
C Type	Lab ID	Source	Parameter	. 6	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
CV01	Q1281602		MERCURY		0.002		0.00184	mg/L	92	
CDL01	Q1281606		MERCURY		0.0002		0.00022	mg/L	110	
CCV	Q1281611		MERCURY		0.003	***************************************	0.00303	mg/L	101	
BLA01	Q1281612		MERCURY				< 0.00008	mg/L		ŀ
LCS	Q1281140		MERCURY		0.002		0.00194	mg/L	97	
BLA02	Q1281141		MERCURY		·		< 0.00008	mg/L		
SAMPLE	A566287		See Cert. of	Analysis, Rep: 0		***************************************	10. 10. 10. 10. 10. 10. 10. 10. 10. 10.			
SP102	Q1281142	A566287	MERCURY		0	0.001	0.00101	mg/L	101	
PS02	Q1281143	A566287	MERCURY		0	0.001	0.00101	mg/L	101	0
CCV	Q1281613		MERCURY		0.003		0.00306	mg/L	102	1
BLA01	Q1281614		MERCURY				< 0.00008	mg/L		
SAMPLE	A566288		See Cert. of	Analysis, Rep: 0						
SAMPLE	A566289		See Cert. of	Analysis, Rep: 0						
SAMPLE	A566290		See Cert. of	Analysis, Rep: 0						
AMPLE	A566291		See Cert. of	Analysis, Rep: 0						
AMPLE	A566292		See Cert. of	Analysis, Rep: 0					1	
AMPLE	A566293	· · · · · · · · · · · · · · · · · · ·	See Cert. of	Analysis, Rep: 0						
			[-1				1			
	Q1281615		MERCURY		0.003		0.00308	mg/L	102.7	1
CCV BLA01	Q1281615 Q1281616		MERCURY MERCURY		0.003		< 0.00308 < 0.00008	mg/L mg/L	102.7	

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 - a. Harriags performed analysis or work for the Client.
 - of necligent size, emans or omissions of the Client; or
 - c. of Clian's fallure to perform its obligations under this Agreement.

	VA UR ICP	ACID DIGESTI	ON OF AQUEOUS	SAMPLES SW8	346-3005	\			_
Run: R41969 PREP		st.: M HALL wer: W WATNESS	Run Date: 1 Review Date: 1						
QC Type La	D ID Source	ce Anal Run							
BLA02 Q1	281516 NA	R419777							
LCS Q1	281517 SPE	K R419777							
SP102 Q1	281518 A566	5287 R419777							***************************************
DPS02 Q1		6287 R419777							
SAMPLE A5	66287 Rep	: 0 R419777							
SAMPLE A5	66288 Rep	: 0 R419777							
SAMPLE A5	66289 Rep	: 0 R419777							
SAMPLE A5	66290 Rep:	: 0 R419777							
SAMPLE A5	56291 Rep:	: 0 R419777							
SAMPLE A5	56292 Rep:	: 0 R419777							
SAMPLE A5	66293 Rep	: 0 R419777							
Run: R41977		st.: J KRAMER wer: S ENDERSON	Run Date: 1 Review Date: 1		Instrument:	ICP			
QC Type Lab	ID Source	Parameter		True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01 Q1	281983 PER	CIN NICKEL		1		1.03	mg/L	103	
CDL01 Q12	281988 INOF	RGAN NICKEL		10	l	9.97	mg/L	99.7	l
050000000000000000000000000000000000000	281990 PERK			1.00		0.930	mg/L	93	
	281993 INOR	RGAN NICKEL		5.00		5.07	mg/L	101.4	
	281994 NA	NICKEL				< 0.00400	mg/L		
	281516 NA	NICKEL				< 0.00400	mg/L		
	281517 SPEX			5.00		5.10	mg/L	102	
	66287		f Analysis, Rep: 0	<u> </u>				.,.,	
		S287 NICKEL		0.0111	0.500	0.521	mg/L	102	
	281519 A566			0.0111	0.500	0.521	mg/L	102	0
5 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	281995 I NOR	2		5.00		5.06	mg/L	101.2	
	281996 NA	NICKEL				< 0.00400	mg/L		
	6288		f Analysis, Rep. 0						
	6289		f Analysis, Rep: 0					-	
	6290		f Analysis, Rep: 0						
	6291		f Analysis, Rep: 0						
	6292		f Analysis, Rep: 0						
	6293		f Analysis, Rep: 0						
CCV 012	81997 I NOR			5.00		5.03	mg/L	100.6	
		1		1		< 0.00400	mg/L	1	1
BLA01 Q12	281998 NA	NICKEL							
BLA01 Q12	281998 NA 282021 PERK			0.080		0.0831	mg/L	103.9	

POTAS Prep	SSIUM ICF : FAA OR	SW846-6 ICP ACI	5010B D DIGESTI	M126.3 ON OF AQUEOUS SAMPLES SW846-3005A
Run: R		Analyst.: M Reviewer: W		Run Date: 18-SEP-01 Review Date: 19-SEP-01
QC Type	Lab ID	Source	Anal Run	
BLA02	Q1281516	NA	R419777	
LCS	Q1281517	SPEX	R419777	
SPI02	Q1281518	A566287	R419777	
DPS02	Q1281519	A566287	R419777	
SAMPLE	A566287	Rep: 0	R419777	

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 - b. of negligent acts, errors or omissions of the Client; or
 - of of Chept's railure to perform its obligations under this Agreement.

Heritage's variety associated with the performance of the work shall be limited to the reperformance of the work or refund of compensation received from the Client.

QC Type	Lab ID	Source	Anal Run					*		
SAMPLE	A566288	Rep: 0	R419777							
SAMPLE	A566289	Rep: 0	R419777							
SAMPLE	A566290	Rep: 0	R419777							
SAMPLE	A566291	Rep: 0	R419777							
SAMPLE	A566292	Rep: 0	R419777			1000 1000 1000 1000 1000 1000 1000 100				
SAMPLE	A566293	Rep: 0	R419777							
Run: R4		Analyst.: Reviewer: S		Run Date: Review Date:		Instrument:	ICP			
QC Type	Lab ID	Source	Parameter		True/Sampl	Spike Val	Observed	Units	% Rec	RPD
I CV01	Q1281984	PERKIN	POTASSIUM		10		9.80	mg/L	98	
ICV01	Q1281985	SPEX	POTASSIUM		20		20.4	mg/L	102	
CCV	Q1281993	INORGAN	POTASSIUM		50		52.9	mg/L	105.8	
BLA01	Q1281994	NA	POTASSIUM				< 0.0400	mg/L		
BLA02	Q1281516	NA	POTASSIUM				< 0.0400	mg/L	**************************************	
LCS	Q1281517	SPEX	POTASSIUM		100	}	106.	mg/L	106	}
SAMPLE	A566287		See Cert. of	f Analysis, Rep: 0						
SPI02	Q1281518	A566287	POTASSIUM		2.98	100	118.	mg/L	115	
DPS02	01281519	A566287	POTASSIUM		2.98	100	115.	mg/L	112	2.6
CCV	Q1281995	INORGAN	POTASSIUM		50		53.4	mg/L	106.8	
BLA01	Q1281996	NA	POTASSIUM				< 0.0400	mg/L		1
SAMPLE	A566288			f Analysis, Rep: 0						
SAMPLE	A566289			f Analysis, Rep: 0						
SAMPLE	A566290			f Analysis, Rep: 0						
SAMPLE	A566291			Analysis, Rep: 0						
SAMPLE	A566292	,		f Analysis, Rep: 0				ļ		
SAMPLE	A566293			Analysis, Rep: 0						
CCV	Q1281997	INORGAN	POTASSIUM		50		53.4	mg/L	106.8	
BLA01	Q1281998	NA	POTASSIUM				< 0.0400	mg/L		

Run: R4 PREP	19695	Analyst.: Reviewer:	M HALL W WATNESS		ate: 18 w Date: 19						
ос туре	Lab ID	Source	Anal Run								
SAMPLE	A566287	Rep: 0	R419807								
SAMPLE	A566288	Rep: 0	R419807								
SAMPLE	A566289	Rep: 0	R419807								
SAMPLE	A566290	Rep: 0	R419807								
SAMPLE	A566291	Rep: 0	R419807					n Telefoloster (1787) Status	The Time	uprakan.	er i ter
SAMPLE	A566292	Rep: 0	R419807								
SAMPLE	A566293	Rep: 0	R419807	. Canala		- WAW		i kwalenci	N. F. Walke	ng jay	.xxd
BLA02	Q1281520	NA	R419807								
_CS	Q1281521	INORGAN	R419807		e an Supplied Africa. An alle africa Africa						valla (A) (A) (A) (A)
SP102	Q1281522	A566287	R419807				•		•		
PS02	Q1281523	A566287	R419807	. <u> </u>	<u> </u>		<u> </u>		· ·	<u> </u>	11 5. 1
Run: R4 ANALYTI		Analyst.: Reviewer:	D DRABENSTOT S ENDERSON		ate: 19 w Date: 20		Instrument:	TRACE ICP			
C Type	Lab ID	Source	Parameter			True/Samp	ol Spike Val	Observed	Units	% Rec	RPD
CV01	Q1282202	PERKIN-	SELENIUM			0.05		0.0496	mg/L	99.2	
DL01	Q1282207	INORGAN	SELENIUM			0.5		0.506	mg/L	101.2	1
CS-A	Q1282209	PERKIN	SELENIUM			0.05		0.0627	mg/L	125.4	
			[18] S. J. S. G. J. 1997.		a are and a second of	0.1		0.107	mg/L	107	1

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- 11. <u>Canoniation</u> of the Direct canonic its order after the sample has been prepped and analyzed, the full fee in Fertage of the term will apply. A \$25 canonication fee will apply if a sample is delivered and accepted at the latitude.
- 12. <u>Intermediation</u>— Ollem agrees to indemnify and hold harmless Heritage from all loss, damage, cost and extremels, monthing attermely fees from any sufficial monaction against Heritage or which names Heritage at a many product.
 - a. Heritage certificated analysis of work for the Olient.
 - b. of neoligent acts, errors or omissions of the Client; or
 - of Client's failure to perform its obligations under this Agreement.

Hieritage's liability associated with the performance of the work shall be limited to the reperformance of the work or refund of compensation received from the Client.

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
BLA01	01282215	NA	SELENIUM			< 0.00200	mg/L		
BLA02	Q1281520	NA	SELENIUM			< 0.00200	mg/L		
LCS	01281521	INORGAN	SELENIUM	0.5		0.583	mg/L	116.6	
SAMPLE	A566287		See Cert. of Analysis, Rep: 0						
SP102	Q1281522	A566287	SELENIUM	0	2	2.25	mg/L	112.5	
DPS02	Q1281523	A566287	SELENIUM	0	2	2.31	mg/L	115.5	2.6
CCA	Q1282216	INORGAN	SELENIUM	0.1		0.105	mg/L	105	
BLA01	Q1282217	NA	SELENIUM			< 0.00200	mg/L		1
SAMPLE	A566288		See Cent. of Analysis, Rep: 0						
SAMPLE	A566289		See Cert. of Analysis, Rep: 0						
SAMPLE	A566290		See Cert. of Analysis, Rep: 0			10.000			
SAMPLE	A566291		See Cert. of Analysis, Rep: 0						
SAMPLE	A566292		See Cert. of Analysis, Rep: 0						
SAMPLE	A566293		See Cert. of Analysis, Rep: 0						
CCA	01282218	INORGAN	SELENIUM	0.1		0.107	mg/L	107	
BLA01	Q1282219	NA	SELENIUM		Í Í	< 0.00200	mg/L		
CDL01	01282222	PERKIN-	SELENIUM	0.01		0.0134	mg/L	134	
ICS-A	Q1282224	PERKIN	SELENIUM	0.05		0.0668	mg/L	133.6	

Run: R	419695	Analyst.: Reviewer:		Run Date: Review Date:						
QC Type	Lab ID	Source	Anal Run							
BLAOZ	Q1281516	NA	R419777							
LCS	Q1281517	SPEX	R419777		·					
SP102	Q1281518	A566287	R419777							
DPS02	Q1281519	A566287	R419777							
SAMPLE	A566287	Rep: 0	R419777	N						
SAMPLE	A566288	Rep: 0	R419777							
SAMPLE	A566289	Rep: 0	R419777	· · · · · · · · · · · · · · · · · · ·						
SAMPLE	A566290	Rep: 0	R419777						•	
SAMPLE	A566291	Rep: 0	R419777							
SAMPLE	A566292	Rep: 0	R419777							
SAMPLE	NJ00272	Rep. 0	8419///							
SAMPLE	A566293	Rep: 0	R419777							Wilks.
SAMPLE Run: Re ANALYT	A566293 419777 ICAL	Rep: 0 Analyst.: . Reviewer: S	R419777	Run Date: Review Date:	19-SEP-01	Instrument:	,	Units	% Per	PDD
SAMPLE Run: Re ANALYT QC Type	A566293 419777 ICAL Lab ID	Rep: 0 Analyst.: Reviewer: Source	R419777 J KRAMER S ENDERSON Parameter		19-SEP-01 True/Sampl	Instrument:	Observed	Units	% Rec	RPD
Run: Re ANALYT QC Type ICV01	A566293 419777 ICAL Lab ID Q1281984	Rep: 0 Analyst:: Reviewer: Source PERKIN	R419777 J KRAMER S ENDERSON Parameter SILVER		19-SEP-01 True/Sampl 0.5		Observed 0.500	mg/L	100	RPD
Run: R4 ANALYT QC Type ICV01 CDL01	A566293 419777 ICAL Lab ID 01281984 Q1281988	Rep: 0 Analyst:: Reviewer: Source PERKIN INORGAN	R419777 J KRAMER S ENDERSON Parameter SILVER SILVER		19-SEP-01 True/Sampl 0.5 2		Observed 0.500	mg/L mg/L	100 98	RPD
Run: R4 ANALYT QC Type ICV01 CDL01 ICS-A	A566293 419777 ICAL Lab ID 01281984 Q1281988 Q1281990	Rep: 0 Analyst.: Areviewer: Source PERKIN INORGAN PERKIN	R419777 J KRAMER S ENDERSON Parameter SILVER SILVER SILVER		19-SEP-01 True/Sampl 0.5 2 0.2		0bserved 0.500 1.96 0.217	mg/L mg/L mg/L	100 98 108.5	RPD
Run: R4 ANALYT QC Type ICV01 CDL01 ICS-A	A566293 419777 ICAL Lab ID 01281984 01281988 01281990 01281993	Rep: 0 Analyst.: Reviewer: Source PERKIN INORGAN PERKIN INORGAN	R419777 J KRAMER S ENDERSON Parameter SILVER SILVER SILVER SILVER		19-SEP-01 True/Sampl 0.5 2		0bserved 0.500 1.96 0.217 0.999	mg/L mg/L mg/L mg/L	100 98	RPD
Run: R4 ANALYT QC Type ICV01 CDL01 ICS-A CCV BLA01	A566293 419777 ICAL Lab ID Q1281984 Q1281990 Q1281990 Q1281993 Q1281994	Rep: 0 Analyst.: , Reviewer: \$ Source PERKIN INORGAN PERKIN INORGAN NA	R419777 J KRAMER S ENDERSON Parameter SILVER SILVER SILVER SILVER SILVER		19-SEP-01 True/Sampl 0.5 2 0.2		Observed 0:500 1.96 0.217 0.999	mg/L mg/L mg/L mg/L	100 98 108.5	RPD
Run: RANALYT OC Type ICV01 CDL01 ICS-A CCV BLA01	A566293 419777 ICAL Lab ID Q1281984 Q1281998 Q1281993 Q1281994 Q1281516	Rep: 0 Analyst.: , Reviewer: \$ Source PERKIN INORGAN PERKIN INORGAN NA	R419777 J KRAMER S ENDERSON Parameter SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER		19-SEP-01 True/Sampl 0.5 2 0.2 1.00		Observed 0:500 1.96 0.217 0.999 <0:00400 <0.00400	mg/L mg/L mg/L mg/L mg/L	100 98 108.5 99.9	RPD
RUN: ROMANALYT OC Type LCV01 CDL01 CS-A CCV BLA01 BLA02 LCS	A566293 419777 ICAL Lab ID 01281984 01281990 01281993 01281994 01281516 01281517	Rep: 0 Analyst.: , Reviewer: \$ Source PERKIN INORGAN PERKIN INORGAN NA	R419777 J KRAMER S ENDERSON Parameter SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER	Review Date:	19-SEP-01 True/Sampl 0.5 2 0.2		Observed 0:500 1.96 0.217 0.999	mg/L mg/L mg/L mg/L	100 98 108.5	RPD
RUN: ROMANDE RUN: ROMANDE RUN: ROMANDE RUNCH RUN	A566293 419777 ICAL Lab ID 01281984 01281990 01281993 01281994 01281516 01281517 A566287	Rep: 0 Analyst:: Reviewer: S Source PERKIN INORGAN PERKIN INORGAN NA NA SPEX	R419777 J KRAMER S ENDERSON Parameter SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER	Review Date:	19-SEP-01 True/Sampl 0.5 2 0.2 1.00	Spike Val	0bserved 0:500 1.96 0.217 0.999 <0:00400 < 0.00400 0:516	mg/L mg/L mg/L mg/L mg/L mg/L	100 98 108.5 99.9	RPD
Run: Rr ANALYT DC Type ICV01 CDL01 ICS-A CCV BLA01 BLA02 CS SAMPLE SP102	A566293 419777 ICAL Lab ID 41281984 41281990 41281993 41281994 41281516 41281517 4566287 41281518	Rep: 0 Analyst:: Reviewer: Source PERKIN INORGAN PERKIN INORGAN NA NA SPEX A566287	R419777 J KRAMER S ENDERSON Parameter SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER	Review Date:	19-SEP-01 True/Sampl 0.5 2 0.2 1.00	Spike Val	0bserved 0:500 1.96 0.217 0.999 <0:00400 < 0.00400 0.516	mg/L mg/L mg/L mg/L mg/L mg/L	100 98 108.5 99.9 103.2	
RUN: RAMALYT QC Type ICVO1 CDL01 ICS-A CCV BLA01 BLA02 CS SAMPLE SPI02 DPS02	A566293 419777 ICAL Lab ID 01281984 01281990 01281993 01281994 01281516 01281517 A566287 01281518 01281519	Rep: 0 Analyst.: Reviewer: Source PERKIN INORGAN PERKIN INORGAN NA NA SPEX A566287	R419777 J KRAMER S ENDERSON Parameter SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER	Review Date:	19-SEP-01 True/Sampl 0.5 2 0.2 1.00 0.500	Spike Val	0bserved 0:500 1.96 0.217 0.999 <0:00400 < 0.00400 0.516 0.0517 0.0517	mg/L mg/L mg/L mg/L mg/L mg/L mg/L	100 98 108.5 99.9 103.2 103.4 103.4	RPD 0
RUN: RAMALYT QC Type ICV01 CDL01 ICS-A CCV BLA01 BLA02 ICS SAMPLE SP102 CPS02 CCV	A566293 419777 ICAL Lab ID Q1281984 Q1281990 Q1281993 Q1281994 Q1281516 Q1281517 A566287 Q1281518 Q1281519 Q1281995	Rep: 0 Analyst.: , Reviewer: \$ Source PERKIN INORGAN PERKIN INORGAN NA SPEX A566287 INORGAN INORGAN	R419777 J KRAMER S ENDERSON Parameter SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER	Review Date:	19-SEP-01 True/Sampl 0.5 2 0.2 1.00	Spike Val	0bserved 0.500 1.96 0.217 0.999 <0.00400 <0.00400 0.516 0.0517 1.00	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	100 98 108.5 99.9 103.2	
SAMPLE Run: Re ANALYT	A566293 419777 ICAL Lab ID 01281984 01281990 01281993 01281994 01281516 01281517 A566287 01281518 01281519	Rep: 0 Analyst.: Reviewer: Source PERKIN INORGAN PERKIN INORGAN NA NA SPEX A566287	R419777 J KRAMER S ENDERSON Parameter SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER SILVER	Review Date:	19-SEP-01 True/Sampl 0.5 2 0.2 1.00 0.500	Spike Val	0bserved 0:500 1.96 0.217 0.999 <0:00400 < 0.00400 0.516 0.0517 0.0517	mg/L mg/L mg/L mg/L mg/L mg/L mg/L	100 98 108.5 99.9 103.2 103.4 103.4	

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- 11. Candelishon in the Otient candels its order after the sample has been prepped and analyzed, the full fee in mentage's out tation will apply. A \$25 cancellation fee will apply if a sample is delivered and accepted at the taporating
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 - a. Herral apartorned analysis of work for the Olient.
 - b. of nepligént acrs, errors or omissions of the Client; or
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ос Туре		Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
SAMPLE	A566290		See Cert. of Analysis, Rep: 0						
SAMPLE	A566291		See Cert. of Analysis, Rep: 0						
SAMPLE	A566292		See Cert. of Analysis, Rep: 0		8. 18. 68. 8. 189				
SAMPLE	A566293		See Cert. of Analysis, Rep: 0						
CCV	Q1281997	INORGAN	SILVER	1.00			mg/L	100	
BLA01	Q1281998	NA	SILVER			< 0.00400	mg/L		
CDL01	91282021	PERKIN	SILVER	0.020		0.0188		0/	9 a. a. a.
ICS-A	Q1282023	PERKIN	SILVER	0.2		0.215	mg/L	107.5	

Run: R	419695	Analyst.:	M HALL	Run Date:	18-SEP-01		····	· · · · · · · · · · · · · · · · · · ·		
PREP	,	Reviewer:		Review Date:	19-SEP-01	_				
ос туре		Source	Anal Run							
BLA02	Q1281516	NA	R419777							
.CS	Q1281517	SPEX	R419777		ere casa are sur as					
SP102	Q1281518	A566287	R419777				***************************************			ANIØ
PS02	91281519	A566287	R419777	 Marianari	my landa mala sa	······································		aanaan aan in aa		
SAMPLE	A566287	Rep: 0	R419777			· · · · · · · · · · · · · · · · · · ·				
SAMPLE	A566288	Rep: 0	R419777			. .				
SAMPLE	A566289	Rep: 0	R419777	1, 2, 1, 1, 2, 1, 1, 2, 1, 1, 2, 1, 1, 2, 1, 1, 2, 1, 1, 2, 1, 1, 2, 1, 1, 2, 1, 1, 2, 1, 1, 2, 1, 1, 2		~				
SAMPLE	A566290	Rep: 0	R419777	······································	i Vilonovii arii va ili Ad		····	1 2 10000000000000000000000000000000000		
AMPLE	A566291	Rep: 0	R419777							
SAMPLE	A566292	Rep: 0	R419777						madawa wa	·vv
AMPLE	A566293	Rep: 0	R419777		• .			<u> </u>		<u> </u>
Run: Re ANALYT	419777 ICAL	Analyst.: Reviewer:		Run Date: Review Date:		Instrument:	ICP			
С Туре	Lab ID	Source	Parameter		True/Sampl	Spike Val	Observed	Units,	% Rec	RPD
CV01	91281984	PERKIN	SODIUM				0.994	mg/L	99.4	
CV01	Q1281985	SPEX	SODIUM	•	20		20.6	mg/L	103	
CV	01281993	INORGAN	SODIUM		50		52.9	mg/L	105.8	
LA01	Q1281994	NA	SODIUM				< 0.0400	mg/L		
LAD2	Q1281516	NA	SODIUM				< 0.0400	mg/L		
.cs	Q1281517	SPEX	SODIUM		100		104.	mg/L	104	
AMPLE	A566287			of Analysis, Rep: 0						
P102	01281518	A566287	SODIUM		29.3	100	139.	mg/L	109.7	
PS02	01281519	A566287	SODIUM		29.3	100	136.	mg/L	106.7	2.8
CV	Q1281995	INORGAN	SODIUM		50		53.4	mg/L	106.8	
LA01	91281996	NA	SODIUM				< 0.0400	mg/L		
AMPLE	A566288			of Analysis, Rep: 0		1	<u> </u>			l
AMPLE	A566289			of Analysis, Rep: 0						
AMPLE	A566290		I	of Analysis, Rep: 0	an e leann a se ee		- 55,000			
AMPLE	A566291		J	of Analysis, Rep: 0						
AMPLE	A566292		l	of Analysis, Rep: 0						
AMPLE	A566293			of Analysis, Rep: 0						
					1 50	1	1 57 /	l == /	1 107 2	1
CCV BLA01	Q1281997 Q1281998	INORGAN	SODIUM		50		53.6 < 0.0400	mg/L	107.2	

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 - a. Herdaps performed analysis or work for the Client.
 - all of neclident sats, errors or omissions of the Clienti or
 - of Olient's failure to perform its obligations under this Agreement

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PREP	19695	Analyst.: Reviewer:		Run Date: 1 Review Date: 1						
QC Type	Lab ID	Source	Anal Run							
SAMPLE	A566287	Rep: 0	R420023		ereiya yak g					: 1 42 82
SAMPLE	A566288	Rep: 0	R419807							
SAMPLE	A566289	Rep: 0	R419807							
SAMPLE	A566290	Rep: 0	R420023						- "	
SAMPLE	A566291	Rep: 0	R419807							
SAMPLE	A566292	Rep: 0	R419807	'					*** * ******	
SAMPLE	A566293	Rep: 0	R419807							
BLA02	Q1281520	NA	R419807							
LCS	01281521	INORGAN	R419807							
SP102	Q1281522	A566287	R419807	······································						
DPS02	01281523	A566287	R419807							
Run: R4	19807	Analyst.: Reviewer:	D DRABENSTOTT S ENDERSON	Run Date: 19 Review Date: 20		Instrument:	TRACE ICP			
QC Type	Lab ID	Source	Parameter		True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q1282202	PERKIN-	THALLIUM		0.05		0.0508	mg/L	101.6	
CDL01	Q1282207	INORGAN	THALLIUM		0.5		0.501	mg/L	100.2	
ICS-A	Q1282209	PERKIN	THALLIUM		0.1		0.107	mg/L	107	
BLA02	Q1281520	NA	THALLIUM				0.00421	mg/L		
LCS	01281521	INORGAN	THALLIUM		0.5		0.575	mg/L	115	Paga 1
SPI02	Q1281522	A566287	THALLIUM		0.0139	3	3.20	mg/L	106.2	1
DPS02	Q1281523	A566287	THALLIUM		0.0139	3	3.28	mg/L	108.9	2.5
ccv	Q1282216	INORGAN	THALLIUM		0.1		0.119	mg/L	119	122222
BLA01	Q1282217	NA	THALLIUM			1	0.00603	mg/L		
SAMPLE	A566288		See Cert. o	f Analysis, Rep: 0	1. 1. 4					
SAMPLE	A566289			f Analysis, Rep: 0						dalay si
SAMPLE	A566291			f Analysis, Rep: 0						
SAMPLE	A566292			f Analysis, Rep: 0		ļ				133333
SAMPLE	A566293			f Analysis, Rep: 0						
CCV	Q1282218	INORGAN	THALLIUM	, , , , , , , , , , , , , , , , , , ,	0.1	ļ	0.105	mg/L	105	
BLA01	Q1282219	NA	THALLIUM				0.00490	mg/L		1
CDL01	Q1282222	PERKIN-	THALLIUM		0.02		0.0248	mg/L	124	ļ
ICS-A	Q1282224	PERKIN	THALLIUM		0.1		0.112	mg/L	112	1
Run: R42	20023 CAL		DRABENSTOTT	Run Date: 23 Review Date: 24		Instrument:				•
1CV01	Q1283474	PERKIN-	THALLIUM		0.05		0.0526	mg/L	105.2	
CDL01	Q1283479	INORGAN	THALLIUM		0.5		0.495	mg/L	99	1
ICS-A	01283481	PERKIN	THALLIUM		0.1	Was 12	0.110	mg/L	110	
CCV	Q1283484	INORGAN	THALLIUM	anna wan an an an an an an an an an an an an a	0.1	1 15	0.109	mg/L	109	14400
BLA01	Q1283485	NA	THALLIUM				0.00449	mg/L	þjórsan.	
SAMPLE	A566287	- vittin A AM AM		f Analysis, Rep: 0		AA			I	1
SAMPLE	A566290			f Analysis, Rep: 0			and the same	<u> </u>	Maria sew	la e iyeez
CCV	Q1283486	INORGAN	THALLIUM	Land of the state	0.1		0.100	mg/L	100	
			,	والمسراء وسراا والمالا		Las 2		and the second	la Tanan	1
BLA01	01283487		THALLIUM	gagir in Relation belatarilared	maji kawa ana arwinisi.	1 (i) (i) (i) (i) (i) (i) (i)	0.00589	ma/t	9.0	10000
BLA01 CDL01	Q1283487 Q1283494	NA PERKIN-	THALLIUM		0.02		0.00589	mg/L	123	Majer.

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VANAD	IUM ICP	SW846-6	010B					M138.3		
Prep	: FAA OR	ICP ACI	D DIGEST	ION OF AQUEOUS	SAMPLES SW	346-3005 <i>/</i>				
Run: R4	19695	Analyst.: Reviewer:		Run Date: Review Date:						
QC Type	Lab ID	Source	Anal Run				· · · · · · · · · · · · · · · · · · ·		-	
BLA02	Q1281516	NA	R419777							
LCS	Q1281517	SPEX	R419777							
SP102	01281518	A566287	R419777							
DPS02	Q1281519	A566287	R419777							
SAMPLE	A566287	Rep: 0	R419777							
SAMPLE	A566288	Rep: 0	R419777							
SAMPLE	A566289	Rep: 0	R419777			4 - 1446 N. 6 166666 V 1666 N. 14 16666				
SAMPLE	A566290	Rep: 0	R419777							
SAMPLE	A566291	Rep: 0	R419777			7. 1 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
SAMPLE	A566292	Rep: 0	R419777							
SAMPLE	A566293	Rep: 0	R419777							
Run: R4		Analyst.: Reviewer:		Run Date: Review Date:		Instrument:	ICP			
QC Type	Lab ID	Source	Parameter		True/Sampl	Spike Val	Observed	Units	% Rec	RPD
1CV01	Q1281983	PERKIN	VANADIUM				1.02	mg/L	102	
CDL01	Q1281988	INORGAN	VANADIUM		10		9.94	mg/L	99.4	
ICS-A	01281990	PERKIN	VANADIUM		0.500		0.499	mg/L	99.8	
CCV	Q1281993	INORGAN	VANADIUM -		5.00		5.04	mg/L	100.8	
BLA01	Q1281994	NA	VANADIUM				< 0.00400	mg/L		
BLA02	Q1281516	NA	VANADIUM			,	< 0.00400	mg/L		1
LCS	01281517	SPEX	MUIDANAV		5.00		5,14	mg/L	102.8	
SAMPLE	A566287		See Cert.	of Analysis, Rep: 0						
SPI02	Q1281518	A566287	VANADIUM		0	0.500	0.518	mg/L	103.6	
DPS02	Q1281519	A566287	VANADIUM		0	0.500	0.520	mg/L	104	.4
CCV	01281995	INORGAN	VANADIUM		5.00		5.03	mg/L	100.6	
BLA01	01281996	NA	VANADIUM				< 0.00400	mg/L		
SAMPLE	A566288		See Cert.	of Analysis, Rep: 0						
SAMPLE	A566289			of Analysis, Rep: 0					1	
SAMPLE	A566290		22.12.02.00 to	of Analysis, Rep: 0						
SAMPLE	A566291			of Analysis, Rep: 0						.
SAMPLE	A566292		See Cert.	of Analysis, Rep: 0						
SAMPLE	A566293		See Cert.	of Analysis, Rep: 0						}
CCV	Q1281997	INORGAN	VANADIUM		5.00		5.03	mg/L	100.6	
BLA01	Q1281998	NA .	VANADIUM				< 0.00400	mg/L		
CDL01	Q1282021	PERKIN	VANAD I UM		0.100		0.101	mg/L	101	

1986 98 19970	ICP SW84 : FAA OR	16-6010B	unu u lakebu urawes	M139.3 ON OF AQUEOUS SAMPLES SW846-3005A
Run: R	419695	Analyst.: Reviewer:		Run Date: 18-SEP-01 Review Date: 19-SEP-01
QC Type BLA02	Lab ID 01281516	Source NA	Anal Run R419777	
LCS SP102	Q1281517	SPEX A566287	R419777	inger of the control
DPS02	Q1281519 A566287	A566287 Rep: 0	R419777	and the state of t

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QC Type	Lab ID	Source	Anal Run							
SAMPLE	A566288	Rep: 0	R419777						988 X 864	er s eve
SAMPLE	A566289	Rep: 0	R419777		W			v		. 4 7 400
SAMPLE	A566290	Rep: 0	R419777							
SAMPLE	A566291	Rep: 0	R419777			Talan and servery			::::::::::::::::::::::::::::::::::::::	
SAMPLE	A566292	Rep: 0	R419777							
SAMPLE	A566293	Rep: 0	R419777			na manyayasa a				
Run: R4	19777	Analyst.: Reviewer:		Run Date: 18-S Review Date: 19-S		Instrument:	ICP			
QC Type	Lab ID	Source	Parameter		True/Sampl	Spike Val	Observed	Units	% Rec	RPD
ICV01	Q1281983	PERKIN	ZINC		1		1.04	mg/L	104	lane wa Tamen
CDL01	Q1281988	INORGAN	ZINC	•	10	ļ	9.97	mg/L	99.7	
ICS-A	Q1281990	PERKIN	ZINC		1.00		0.938	mg/L	93.8	
ccv	Q1281993	INORGAN	ZINC		5.00		5.12	mg/L	102.4	
BLA01	Q128199 4	NA	ZINC				< 0.00800	mg/L		
BLA02	Q1281516	NA	ZINC]	< 0.00800	mg/L]	
LCS	01281517	SPEX	ZINC		5.00		5.15	mg/L	103	
SAMPLE	A566287		See Cert. of /	Analysis, Rep: 0						
SPI02	01281518	A566287	ZINC		0	0.500	0.524	mg/L	104.8	
DPS02	Q1281519	A566287	ZINC		0	0.500	0.518	mg/L	103.6	1.2
CCV	01281995	1 NORGAN	ZINC		5.00		5.06	mg/L	101.2	
BLA01	Q1281996	NA	ZINC				< 0.00800	mg/L		
SAMPLE	A566288		i	Analysis, Rep: 0					W 1 W 2	
SAMPLE	A566289		1	Analysis, Rep: 0						
SAMPLE	A566290			Analysis, Rep: 0			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
SAMPLE	A566291		{	Analysis, Rep: 0				İ		<u> </u>
SAMPLE	A566292			Analysis, Rep: 0				1.000.000.000		
SAMPLE	A566293			Analysis, Rep: 0						
CCV	Q1281997	INORGAN	ZINC		5.00		5.05	mg/L	101	
BLA01	01281998	NA	ZINC				< 0.00800	mg/L	<u> </u>	
CDL01	01282021	PERKIN	ZINC		0.040		0.0426	mg/L	106.5	
ICS-A	Q1282023	PERKIN	ZINC		1.00		0.901	mg/L	90.1	

BLA02 Q1281228 R420016 LCS Q1281229 R420016 SPI02 Q1281230 A566287 R420016 DPS02 Q1281231 A566287 R420016 SAMPLE A566287 Rep: 0 R420016 SAMPLE A566288 Rep: 0 R420016 SAMPLE A566289 Rep: 0 R420016 SAMPLE A566289 Rep: 0 R420016 SAMPLE A566290 Rep: 0 R420016	Run: R4 PREP	19670	Analyst.: S Reviewer: 1		Run Date: 17-5 Review Date: 17-5						
Run: R420016 A566293 Rep: 0 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 Run R420016 Analyst: I PINCKERT Run Date: 20-SEP-01 Instrument: GC/ECD	ас туре	Lab ID	Source ·	Anal Run							
Run: R420016 A566293 Rep: 0 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 R420016 Run R420016 Analyst: I PINCKERT Run Date: 20-SEP-01 Instrument: GC/ECD	BLA02	Q1281228		R420016			Yan walaji				#1#1
DPS02	LCS	Q1281229		R420016	•						
DPS02	SPI02	Q1281230	A566287	R420016				Fri Casa e		i maaa y	
SAMPLE	DPS02	Q1281231	A566287	R420016							
SAMPLE	SAMPLE	A566287	Rep: 0	R420016							
SAMPLE A566290 Rep: 0 R420016 SAMPLE A566291 Rep: 0 R420016 SAMPLE A566292 Rep: 0 R420016 SAMPLE A566293 Rep: 0 R420016 Run: R420016 Analyst:: T PINCKERT Run Date: 20-SEP-01 Instrument: GC/ECD	SAMPLE	A566288	Rep: 0	R420016							
SAMPLE A566290 Rep: 0 R420016 SAMPLE A566291 Rep: 0 R420016 SAMPLE A566292 Rep: 0 R420016 SAMPLE A566293 Rep: 0 R420016 Run: R420016 Analyst:: T PINCKERT Run Date: 20-SEP-01 Instrument: GC/ECD	SAMPLE	A566289	Rep: 0	R420016						ea Chairt	
SAMPLE A566292 Rep: 0 R420016 SAMPLE A566293 Rep: 0 R420016 Run: R420016 Analyst:: T PINCKERT Run Date: 20-SEP-01 Instrument: GC/ECD	SAMPLE	A566290	Rep: 0					•			
SAMPLE A566292 Rep: 0 R420016 SAMPLE A566293 Rep: 0 R420016 Run: R420016 Analyst:: T PINCKERT Run Date: 20-SEP-01 Instrument: GC/ECD	SAMPLE	A566291	Rep: 0	R420016							## XX
Run: R420016 Analyst.: T PINCKERT Run Date: 20-SEP-01 Instrument: GC/ECD	SAMPLE	A566292	Rep: 0								
	SAMPLE	A566293	Rep: 0	R420016				de i Villagija m		4888	<u> </u>
							nstrument:	GC/ECD			
OC Type Lab ID Source Parameter True/Sampl Spike Val Observed Units % Rec RPD	CV01	Q1283469		ALPHA-BHC		20		19.1	ug/L	95.5	:

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QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	0bserved	Units	% Rec	RPD
ICV01	Q1283469		BETA-BHC	20	2.	18.1	ug/L	90.5	La Suri
ICV01	Q1283469		DELTA-BHC	20		18.4	ug/L	92	
ICV01	Q1283469		GAMMA-BHC (LINDANE)	20		20.9	ug/L	104.5	
ICV01	Q1283469		HEPTACHLOR	20		19.9	ug/L	99.5	
1CV01	Q1283469		ALDRIN	20		19.4	ug/L	97	
ICV01	Q1283469		HEPTACHLOR EPOXIDE	20		19.3	ug/L	96.5	
ICV01	Q1283469	, , , , , , , , , , , , , , , , , , ,	ENDOSULFAN I	20		20.4	ug/L	102	
1CV01	Q1283469		DIELDRIN	20		20.1	ug/L	100.5	1
1CV01	Q1283469		4,4'-DDE	20		18.3	ug/L	91.5	
1CV01	Q1283469	}	ENDRIN	20	1	20.8	ug/L	104	}
1 CV01	Q1283469		ENDOSULFAN II	20		19.5	ug/L	97.5	A. V. A V. V.
1CV01	Q1283469		4,4'-DDD	20		15.9	ug/L	79.5	
1CV01	Q1283469		ENDOSULFAN SULFATE	20		19.2	ug/L	96	
ICV01	Q1283469		4,4'-DDT	20	<u> </u>	15.9	ug/L	79.5	
TCV01	Q1283469		METHOXYCHLOR	20		13.7	ug/L	68.5	
1CV01	Q1283469		ENDRIN ALDEHYDE	20		26	ug/L	130	
1CV01	Q1283469		ENDRIN KETONE	20		21.3	ug/L	106.5	
1CV01	01283469		ALPHA-CHLORDANE	20		19.9	ug/L	99.5	
10001	Q1283469		GAMMA-CHLORDANE	20		18.7	ug/L	93.5	
CCV	Q1283470		ALPHA-BHC	20		18.8	ug/L	94	
CCV	Q1283470		BETA-BHC	20		19.7	ug/L	98.5	
CCV	Q1283470		DELTA-BHC	20	<i>-</i>	16.8	ug/L	84	
CCV	Q1283470		GAMMA-BHC (LINDANE)	20	=	20.2	ug/L	101	
CCV	Q1283470		HEPTACHLOR	20		14.3	ug/L	71.5	5 55 5 7 7 7 7 7 7
CCV	01283470		ALDRIN	20		16.8	ug/L	84	
CCV	01283470		HEPTACHLOR EPOXIDE	20	** :	. 17	ug/L	85	
CCV	Q1283470		ENDOSULFAN I	20		19.5	ug/L	97.5	
CCV	Q1283470		DIELDRIN	40	. ,	41.5	ug/L	103.8	agganaan.
CCV	Q1283470		4,4'-DDE	40		35.4	ug/L	88.5	
CCA	Q1283470	arran nan arrinan	ENDRIN	40 40		40.6	ug/L	101.5 89.3	Section 6
CCV	Q1283470 Q1283470	::::::::::::::::::::::::::::::::::::::	ENDOSULFAN 11.			35.7 43.1	ug/L	107.8	
CCA	Q1283470		ENDOSULFAN SULFATE	40 40		45.1 35.4	ug/L	88.5	
CCV	Q1283470	***************************************	4,4'-DDT	40		37	ug/L ug/L	92.5	2 1 . A.M. A.A.
CCA	Q1283470		METHOXYCHLOR	200		175.8	ug/L ug/L	87.9	69900900
CCV	Q1283470		ENDRIN ALDEHYDE	40		36.4	ug/L	91	N. W. A. A. A. A. A.
l week and and	www.comment.cl		ENDRIN KETONE			waziyariyairi waxa a		lave in er ind	ASSIATED
CCA	Q1283470 Q1283470		ALPHA-CHLORDANE	20		36.6 17.4	ug/L ug/L	91.5 87	3 - XX XX
CCV	Q1283470		GAMMA-CHLORDANE	20		16.8	ug/L ug/L	84	ya
BLA02	Q1281228		ALPHA-BHC	La .T.T.	17.475 EFE	BDL 0.05	ug/L	⊕ ~,* ¥ + + +}	··· · · · · · · · · · · · · · · · · ·
BLA02	Q1281228		BETA-BHC			BDL 0.05	ug/L		
BLA02	Q1281228		DELTA-BHC		N 19 1. 1 1.44	BDL 0.05	ug/L	MAGARICA	2 (X) (V) -
BLA02	Q1281228		GAMMA-BHC (L'INDANE)			BDL 0.05	ug/L		[wine]
BLA02	Q1281228		HEPTACHLOR	ration was also	1 V	BDL 0.05	ug/L	A.M.A.A. I.	7 PMP 1 N
BLA02	Q1281228		ALDRIN			BDL 0.05	ug/L	43, 14,53	백 6년 원
BLA02	Q1281228		HEPTACHLOR EPOXIDE	ton orma of		BDL 0.05	ug/L	7.7	v 1 (v/s. t)
BLA02	01281228		ENDOSULFAN I			BDL 0.05	ug/L	yeren ad	Paga l
BLA02	Q1281228		DIELDRIN			BDL 0.1	ug/L		
BLA02	Q1281228		4,4'-DDE	***************************************		BDL 0.1	ug/L		
BLA02	Q1281228		ENDRIN		. 12/2///	BDL 0.1	ug/L	2 - 222 2 - 12	v v razni
BLA02	Q1281228		ENDOSULFAN II		918 LLGGE	BDL 0.1	ug/L		
BLA02	Q1281228		4,4'-DDD			BDL 0.1	ug/L		
BLA02	Q1281228		ENDÖSÜLFAN SÜLFATE		e direnal d	BDL 0.1	ug/L		
BLA02	Q1281228		4,4'-DDT	a waxar aa la viii	**************************************	BDL 0.1	ug/L		v. e. equel

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 - e. Heritage additioned analysis or work for the Otient.
 - but of negligant and lemore or omissions of the Client; or
 - or of Cliant's failure to perform its obligations under this Agreement.

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QC Type	1	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
BLA02	Q1281228		METHOXYCHLOR			BDL 0.5	ug/L		
BLA02	Q1281228		ENDRIN ALDEHYDE	VA 1.1 GARLEY		BDL 0.1	ug/L		d Sangtana
BLA02	Q1281228 Q1281228		ENDRIN KETONE ALPHA-CHLORDANE			BDL 0.1	ug/L) <i>i die d</i> i
BLA02 BLA02	Q1281228		GAMMA-CHLORDANE			BDL 0.05	ug/L ug/L		(a.a.aa.)
BLA02	Q1281228		TOXAPHENE		r en we	BDL 0.05	ug/L ug/L		
BLA02	91281228		PCB AROCLOR 1016			BDL 0.5	ug/L ug/L		ļ.,, .,,
BLA02	Q1281228		PCB AROCLOR 1221			BDL 0.5	ug/L	#** #** #* *	79933
BLA02	Q1281228		PCB AROCLOR 1232			BDL 0.5	ug/L		<u> </u>
BLA02	Q1281228		PCB AROCLOR 1242		ta in and	BDL 0.5	ug/L)	n ellerenen
BLA02	Q1281228		PCB AROCLOR 1248			BDL 0.5	ug/L		
BLA02	Q1281228	***************************************	PCB AROCLOR 1254	***************************************		BDL 1	ug/L		
BLA02	Q1281228	· · · · · · · · · · · · · · · · · · ·	PCB AROCLOR 1260			BDL 1	ug/L		
LCS	Q1281229		GAMMA-BHC (LINDANE)	0.5		0.574	ug/L	114.8	
LCS	Q1281229		HEPTACHLOR	0.5		0.383	ug/L	76.6	
LCS	Q1281229		ALDRIN	0.5		0.428	ug/L	85.6	7.5
LCS	Q1281229		DIELDRIN			1,11	ug/L	111	
LCS	Q1281229	· · · · · · · · · · · · · · · · · · ·	ENDRIN	1	form Ave Ave Avenue	1.04	ug/L	104	A. W
LCS	Q1281229		4,41-DDT	1		0.918	ug/L	91.8	
SAMPLE	A566287	7	See Cert. of Analysis, Rep: 0						
SP102	Q1281230	A566287	GAMMA-BHC (LINDANE)	0	1.06	1.13	ug/L	106.6	
SP102	Q1281230	A566287	HEPTACHLOR	0	1.06	0.884	ug/L	83.4	2000 220
SP102	Q128123D	A566287	ALDRIN	0	1.06	0.96	ug/L	90.6	rei at
SP102	Q1281230	A566287	DIELDRIN	0	2.13	2.18	ug/L	102.3	
SP102	Q1281230	A566287	ENDRIN	0	2.13	1.96	ug/L	92	anani'i
SP102	Q1281230	A566287	4,4'-DDT	0	2.13	. 1.86	ug/L	87.3	12 72 33
DPS02	Q1281231	A566287	GAMMA-BHC (LINDANE)	í o	1.06	1.13	ug/L	106.6	0
DPS02	Q1281231	A566287	HEPTACHLOR	0	1.06	0.939	ug/L	88.6	6
DPS02	Q1281231	A566287	ALDRIN	0	1,06	0.97	ug/L	91.5	1
DPS02	Q1281231	A566287	DIELDRIN	0	2.13	2.34	ug/L	109.9	7.2
DPS02	Q1281231	A566287	ENDR1N	0	2.13	2.11	ug/L	99.1	7.4
DPS02	Q1281231	A566287	4,4'-DDT	0	2.13	2.29	ug/L	107.5	20.7
SAMPLE	A566288		See Cert. of Analysis, Rep: 0						
SAMPLE	A566289		See Cert. of Analysis, Rep: 0					ľ	
SAMPLE	A566290	1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,	See Cert. of Analysis, Rep: 0						78111
SAMPLE	A566291		See Cert. of Analysis, Rep: 0					<u> </u>	
SAMPLE	A566292		See Cert. of Analysis, Rep: 0			**************************************			
SAMPLE	A566293		See Cert. of Analysis, Rep: 0						
CCA	Q1283471		ALPHA-BHC	20		18.6	ug/L	93	
CCV	01283471		BETA-BHC	20		18.5	ug/L	92.5	
CCA	Q1283471		DELTA-BHC	20		16.3	ug/L	81.5	
CCV	Q1283471		GAMMA-BHC (LINDANE)	20	, ,	19.6	ug/L	98	
CCV	Q1283471		HEPTACHLOR	20		18.3	ug/L	91.5	
CCV	Q1283471		ALDRIN	20		18.4	ug/L	92	
CCV	Q1283471		HEPTACHLOR EPOXIDE	20		19	ug/L	95	
CCV	Q1283471		ENDOSULFAN I	20		21.4	ug/L	107	
CCV	Q1283471		DIELDRIN	40		43.7	ug/L	109.3	waa.
CCV	01283471		4,4'-DDE	40		40.1	ug/L	100.3	
CCV	01283471		ENDRIN	40		39.1	ug/L	97.8	
CCV	01283471		ENDOSULFAN II	40	<u>.</u>	39.8	ug/L	99.5	
CCV	Q1283471		4,4/-DDD	40		38.3	ug/L	95.8	*!!! !!!
CCA	Q1283471		ENDOSULFAN SULFATE	40		39.8	ug/L	99.5	
CCV	Q1283471		4,4?-DDT	40		32.1	ug/L	80.3	
CCV	Q1283471		METHOXYCHLOR	200		149.9	ug/L	75	

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 - a. Hankage pend in ad analysis of work for the Client
 - purpline alignment abis, a mans or amissions of the Olient; or
 - a. of Ollent's failure to perform its obligations under this Agreement.

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QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
	01283471		ENDRIN ALDEHYDE	20.76	Mar Mr. Mariana	70 //	ug/L	96.5	
CCV	Q1283471		ENDRIN KETONE	40		37.2	ug/L	93	
CCV	Q1283471		ALPHA-CHLORDANE	20			ug/L	95	
CCV	Q1283471		GAMMA-CHLORDANE	20		19.4	ug/L	97	

Run: R4 PREP	19756	Analyst.: Reviewer:	V BROWN J MINNIEAR,	Run Date: 18- II Review Date: 18-						
ас туре	Lab ID	Source	Anal Run							
BLA02	Q1281844	HLI	R420012							
LCS	Q1281845	HLI	R420012							
SP102	Q1282136	A566575	R420156							
DPS02	Q1282137	A566575	R420156							
SAMPLE	A566287	Rep: 0	R420012							
SAMPLE	A566288	Rep: 0	R420012							
SAMPLE	A566289	Rep: 0	R420012							
SAMPLE	A566290	Rep: 0	R420012							
SAMPLE	A566291	Rep: 0	R420012					***************************************		
SAMPLE	A566292	Rep: 0	R420012							
SAMPLE	A566293	Rep: 0	R420012							
Run: R42 ANALYTI		Analyst.: Reviewer:		Run Date: 21- Review Date: 24-		Instrument:	GC/MS SVOA			
ОС Туре	ab ID	Source	Parameter		True/Sampl	Spike Val	Observed	Units	% Rec	RPD
			Date and ti	ime of analysis	21-SEP-01	16:48:00				
LA02	Q1281844	HLI	ACENAPHTHE	ENE			BDL 10.	ug/L		
LA02	Q1281844	HLI	ACENAPHTH	YLENE			BDL 10.	ug/L		
LA02	Q1281844	HLI	ANTHRACENE	=			BDL 10.	ug/L		
LA02	Q1281844	HLI.	BENZO(A)P	(RENE			BDL 10.	ug/L		
BLA02	Q1281844	HLI	BENZO(B)FL	LUORANTHENE (3,4-BENZOFL	JOR .		BDL 10.	ug/L		
BLA02	Q1281844	HL1	BENZO(G,H,	, I)PERYLENE			BDL 10.	ug/L		
BLA02	Q1281844	HLI	BENZO(K)FL	LUORANTHENE			BDL 10.	ug/L		1
BLAD2	Q1281844	HLT	BENZYL ALC	COHOL			BDL 10.	ug/L		
BLA02	Q1281844	HLI	BENZYLBUTY	/LPHTHALATE (BUTYLBENZYL	РНТ		BDL 10.	ug/L		
BLA02	Q1281844	HLI	BIS(2-CHLC	DROETHOXY)METHANE			BDL 10.	ug/L		
BLA02	Q1281844	HLI	BIS(2-CHLC	DROETHYL)ETHER			BDL 10.	ug/L		'
BLA02	01281844	HLI	BIS(2-CHLC	DROISOPROPYL)ETHER			BDL 10.	ug/L		
BLA02	01281844	HLI	BIS(2-ETHY	(LHEXYL)PHTHALATE			BDL 10.	ug/L		
BLA02	Q1281844	MHLT M	4 - BROMOD I F	PHENYL ETHER			BDL 10.	ug/L		
BLA02	Q1281844	HLI	CARBAZOLE				BDL 10.	ug/L		
BLA02	Q1281844	HLI	4-CHLOROAN	ILINE			BDL 10.	ug/L		
BLA02	Q1281844	HLI	2-CHLORONA	APHTHALENE			BDL 10.	ug/L		
BLA02	Q1281844	HLI	4-CHLOROPH	IENYL-PHENYLETHER			BDL 10.	ug/L		
LA02	Q1281844	HLI	CHRYSENE				BDL 10.	ug/L]
LA02	Q1281844	RLI	DIBENZ(A,H	I)ANTHRACENE			BDL 10.	ug/L		
LA02	Q1281844	HLI	DIBENZOFUR	RAN			BDL 10.	ug/L		
LA02	Q1281844	HLI	1,2-DICHLO	ROBENZENE (O-DICHLOROBE	νŻΕ		BDL 10.	ug/L		Harin
LA02	Q1281844	HLI	1,3-DICHLO	ROBENZENE (M-DICHLOROBE	IZE		BDL 10.	ug/L		T
LA02	Q1281844	HUT	1,4-DICHLO	ROBENZENE (P-DICHLOROBE)	ι ΖΕ		BDL 10.	ug/L		
LA02	Q1281844	HLI	3,3'-DICHL	OROBENZIDINE		1	BDL 20.	ug/L		1
	Q1281844	HLI	DIETHYLPHT	and a section of the		Marian Ta	BDL 10.	ug/L	adere a v	
SLA02										

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 - a. Hemboe dentimed analysis or work for the Client.
 - but of heblident abid, errors or orbissions of the Client; or
 - a. of Olient's failure to perform its obligations under this Agreement.

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BLA02	Q1281844	HL1	DI-N-BUTYLPHTHALATE			BDL 10.	ug/L		
BLA02	Q1281844	HLI	2,4-DINITROTOLUENE			BDL 10.	ug/L		1
BLA02	Q1281844	HLT	2,6-DINITROTOLUENE			BDL 10.	ug/L		
BLA02	91281844	HLI	DI-N-OCTYLPHTHALATE		1	BDL 10.	ug/L		
BLA02	Q1281844	HLT	FLUORANTHENE			BDL 10.	ug/L		
BLA02	Q1281844	HLI	FLUORENE			BDL 10.	ug/L		1
BLA02	Q1281844	HLI	HEXACHLOROBENZENE			BDL 10.	ug/L		
BLA02	Q1281844	HLI	HEXACHLOROBUTAD I ENE			BDL 10.	ug/L		
BLA02	Q1281844	HL1	HEXACHLOROCYCLOPENTADIENE			BDL 10.	ug/L		
BLA02	Q1281844	HLI	HEXACHLOROETHANE			BDL 10.	ug/L		
BLA02	Q1281844	HLI	INDENO(1,2,3-CD)PYRENE			BDL 10.	ug/L		
BLA02	Q1281844	HLI	1 SOPHORONE		1	BDL 10.	ug/L		
BLA02	Q1281844	HLI	2-METHYLNAPHTHALENE			BDL 10.	ug/L		
BLA02	91281844	HLI	NAPHTHALENE	1		BDL 10.	ug/L	1	1
BLA02	91281844	HLI	2-NITROANILINE (O-NITROANILINE)			BDL 50.	ug/L		
BLA02	Q1281844	HLI .	3-NITROANILINE (M-NITROANILINE)			BDL 50.	ug/L]	
BLA02	91281844	HLI	4-NITROANILINE (P-NITROANILINE)			BDL 50.	ug/L		
BLA02	Q1281844	HLI	NITROBENZENE			BDL 10.	ug/L		
BLA02	Q1281844	HLI	N-NITROSODIPHENYLAMINE			BDL 10.	ug/L		<u> </u>
BLA02	Q1281844	HLI	N-NITROSO-DI-N-PROPYLAMINE			BDL 10.	ug/L		
BLA02	Q1281844	HL I	PHENANTHRENE			BDL 10.	ug/L		
BLA02	Q1281844	HLI	2-PICOLINE			BDL 50.	ug/L		1
BLA02	01281844	HL I	PYRENE			BDL 10.	ug/L		
BLA02	Q1281844	HLI	PYRIDINE		1.00	BDL 50.	ug/L]
BLA02	Q1281844	HLI	1,2,4,5-TETRACHLOROBENZENE			BDL 10.	ug/L		
BLA02	Q1281844	HLI	1,2,4-TRICHLOROBENZENE			BDL 10.	ug/L		
BLA02	Q1281844	HLI	BENZOIC ACID			BDL 50.	ug/L		
BLA02	Q1281844	HLI	4-CHLORO-3-METHYLPHENOL (P-CHLORO-I	 -	:	BDL 10.	ug/L		
BLA02	Q1281844	HLI	2-CHLOROPHENOL			BDL 10.	ug/L		
BLA02	Q1281844	HLI	2,4-DICHLOROPHENOL			BDL 10.	ug/L		
BLA02	Q1281844	HCI	2,4-DIMETHYLPHENOL			BDL 10.	ug/L		
BLA02	Q1281844	HLI	2,4-DINITROPHENOL			BDL 50.	ug/L		l
BLA02	Q1281844	HLI	2-METHYLPHENOL (O-CRESOL)			BDL 10.	ug/L		
BLA02	Q1281844	HLI	4-METHYLPHENOL (P-CRESOL)			BDL 10.	ug/L		
BLA02	Q1281844	HLI	2-NITROPHENOL	Hewer-t		BDL 10.	ug/L		
BLA02	Q1281844	HLI	4-NITROPHENOL	.		BDL 50.	ug/L		İ
BLA02	Q1281844	HLI	PENTACHLOROPHENOL			BDL 50.	ug/L		9977111
BLA02	Q1281844	HLI	PHENOL			BDL 10.	ug/L		
BLA02	01281844	HLI	2,3,4,6-TETRACHLOROPHENOL			BDL 10.	ug/L		
BLA02	Q1281844	HLI	2,4,5-TRICHLOROPHENOL			BDL 50.	ug/L		
BLA02	Q1281844	HL1	2,4,6-TRICHLOROPHENOL			BDL 10.	ug/L		
BLA02	Q1281844	HLI	2-FLUOROPHENOL					61	
BLA02	Q1281844	HLI	PHENOL-D5					41	
BLA02	Q1281844	HLI	NITROBENZENE-D5					101	
BLA02	Q1281844	HLI	2-FLUOROBIPHENYL					83	
BLA02	Q1281844	HLI	2,4,6-TRIBROMOPHENOL					87	l
BLA02	01281844	RL1	TERPHENYL-D14					45	
			Date and time of analysis	21-SEP-01	17:29:00				
LCS	Q1281845	HLI	ACENAPHTHENE	100		88.3	ug/L	88.3	
LCS	Q1281845	HLI	ACENAPHTHYLENE	100		82.3	ug/L	82.3	
rcs	01281845	HL I	ANTHRACENE	100		86.9	ug/L	86.9	
LCS	Q1281845	HLI	BENZO(A)PYRENE	100		87.4	ug/L	87.4	
LCS	Q1281845	HLI	BENZO(B)FLUGRANTHENE (3,4-BENZOFLUC	R 100		90.9	ug/L	90.9	**************************************
LCS	Q1281845	HLI	BENZO(G,H,I)PERYLENE	100		93.6	ug/L	93.6	

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- 12. <u>incomplication</u>— Litem agrees to indemnify and hold harmless Heritage from all loss, damage, cost and expenses inducting attemney fees from any suit, claim or action against Heritage or which names Heritage as a participated at
 - all Heritags performed analysis or work for the Client.
 - b. of neplicent abla lerrors or omissions of the Client; or
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QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	0bserved	Units	% Rec	RPD
LCS	Q1281845	HLI	BENZO(K)FLUORANTHENE	100		85.4	ug/L	85.4	
LCS	Q1281845	HLI	BENZYL ALCOHOL	100		80	ug/L	80	
LCS	Q1281845	HL I	BENZYLBUTYLPHTHALATE (BUTYLBENZYLP	HT 100	7.7.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	92.9	ug/L	92.9	
LCS	Q1281845	HLI	BIS(2-CHLOROETHOXY)METHANE	100		86.4	ug/L	86.4	
LCS	Q1281845	HLI	BIS(2-CHLOROETHYL)ETHER	100		80.6	ug/L	80.6	. 7
LCS	Q1281845	HLI	BIS(2-CHLOROISOPROPYL)ETHER	100		110	ug/L	110	
LCS	Q1281845	HLI	BIS(2-ETHYLHEXYL)PHTHALATE	100		93.7	ug/L	93.7	
LCS	Q1281845	HLI	4-BROMODIPHENYL ETHER	100	j	81.1	ug/L	81.1	
LCS	Q1281845	HLI	CARBAZOLE	100		46	ug/L	92	
LCS	01281845	HLI	4-CHLOROANILINE	100		84.1	ug/L	84.1	
rcs	Q1281845	HLI	2-CHLORONAPHTHALENE	100		107	ug/L	107	
LCS	Q1281845	HLI	4-CHLOROPHENYL-PHENYLETHER	100	<u> </u>	88.7	ug/L	88.7	ĺ
LCS	Q1281845	HLI	CHRYSENE	100		94.9	ug/L	94.9	
LCS	Q1281845	HLI	DIBENZ(A, H)ANTHRACENE	100		91.6	ug/L	91.6	
LCS	Q1281845	HLT	DIBENZOFURAN	100		89.1	ug/L	89.1	
LCS	Q1281845	HLI	1,2-DICHLOROBENZENE (O-DICHLOROBENZ	E 100		78.9	ug/L	78.9	.
LCS	Q1281845	HL1	1,3-DICHLOROBENZENE (M-DICHLOROBENZ	E 100		77	ug/L	77	
LCS	Q1281845	HLI	1,4-DICHLOROBENZENE (P-DICHLOROBENZ	E 100		78.8	ug/L	78.8	
LCS	Q1281845	HLI	3,3/-DICHLOROBENZIDINE	100		120	ug/L	120	
LCS	Q1281845	HLI	DIETHYLPHTHALATE	100		89.6	ug/L	89.6	Li an ee e
LCS	Q1281845	HL1	DIMETHYLPHTHALATE	100		86.9	ug/L	86.9	
LC\$	Q1281845	HLI	DI-N-BUTYLPHTHALATE	100		88.8	ug/L	88.8	ı
LCS	Q1281845	HLT	2,4-DINITROTOLUENE	100		105	ug/L	105	
LC\$	Q1281845	HLI	2,6-DINITROTOLUENE	100		96.4	ug/L	96.4	
LCS	Q1281845	HL1	DI-N-OCTYLPHTHALATE	100		89.8	ug/L	89.8	
LCS	Q1281845	HLI	FLUORANTHENE	100	Y 10 1	89. 5	ug/L	89.5	
LC\$	Q1281845	HLI	FLUORENE	100		87.1	ug/L	87.1	
LCS	Q1281845	HLI	HEXACHLOROBENZENE	100		81.3	ug/L	81.3	
LCS	Q1281845	HLI	HEXACHLOROBUTADIENE	100		77.4	ug/L	77.4	
LCS	Q1281845	HLI	HEXACHLOROCYCLOPENTAD I ENE	100		61.9	ug/L	61.9	
LCS	Q1281845	HLI	HEXACHLOROETHANE	100		76.9	ug/L	76.9	
LC\$	Q1281845	HLI	INDENO(1,2,3-CD)PYRENE	100		98.2	ug/L	98.2	
LCS	Q1281845	HLT	ISOPHORONE	100		77.9	ug/L	77.9	
rcs	Q1281845	HLI	2-METHYLNAPHTHALENE	100		86.7	ug/L	86.7	
LCS	Q1281845	HLI	NAPHTHALENE	100		83.6	ug/L	83.6	
LCS	Q1281845	HLI	2-NITROANILINE (O-NITROANILINE)	100	www.	98.8	ug/L	98.8	
LCS	Q1281845	HLI	3-NITROANILINE (M-NITROANILINE)	100		112	ug/L	112	
LC\$	Q1281845	HLI	4-NITROANILINE (P-NITROANILINE)	100	waa ee aa aasa	103	ug/L	103	
LCS	Q1281845	HLI	NITROBENZENE	100	1	90.3	ug/L	90.3	
rcs	Q1281845	HLI	N-NITROSODIPHENYLAMINE	100	armyr y sagais	168	ug/L	168	g ima
LCS	Q1281845	HLI	N-NITROSO-DI-N-PROPYLAMINE	100		90.1	ug/L	90.1	TRUKE
LCS	01281845	HLI	PHENANTHRENE	100		87.5	ug/L	87.5	
LC\$	01281845	HL I	2-PICOLINE	100		76.2	ug/L	76.2	
LC2	Q1281845	HLI	PYRENE	100	Ag jaran	89.6	ug/L	89.6	1145.614
LCS	01281845	HLI	PYRIDINE	100		46.6	ug/L	46.6	PA 1911
rcs	01281845	HLI	1,2,4,5-TETRACHLOROBENZENE	100	· ·· ·	88.5	ug/L	88.5	
LCS	01281845	HLI	1,2,4-TRICHLOROBENZENE	100		80.7	ug/L	80.7	
rc2	01281845	HL I	BENZOIC ACID	100	Karla Lillyday	5.2	ug/L	5.2	
LCS	01281845	HL I	4-CHLORO-3-METHYLPHENOL (P-CHLORO-N	100	AW - AW	87	ug/L	87	Y (M.Y)
LC2	Q1281845	HLI	2-CHLOROPHENOL	100	ay ar yeen	83.4	ug/L	83.4	. : :
LC2	01281845	HL I	2,4-DICHLOROPHENOL	100	et Diri	86.8	ug/L	86.8	Mikki.
rcs	Q1281845	HLI	2,4-DIMETHYLPHENOL	100		73.7	ug/L	73.7	
LCS	Q1281845	HLI	2,4-DINITROPHENOL	100		119	ug/L	119	
rcs	Q1281845	HLI	2-METHYLPHENOL (O-CRESOL)	100		77.4	ug/L	77.4	

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 - but of nectioent sots, errors or omissions of the Client; or
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QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
LCS	Q1281845	HLI	4-METHYLPHENOL (P-CRESOL)	100		73.2	ug/L	73.2	
LCS	Q1281845	HLI	2-NITROPHENOL	100		102	ug/L	102	
LCS	Q1281845	HLI	4-NITROPHENOL	100		47	ug/L	47	
LCS	Q1281845	HLI	PENTACHLOROPHENOL	100		89.3	ug/L	89.3	
LCS	Q1281845	HLI	PHENOL	100		46.8	ug/L	46.8	
LCS	Q1281845	HLI	2,3,4,6-TETRACHLOROPHENOL	100		90.6	ug/L	90.6	
LCS	Q1281845	HLI	2,4,5-TRICHLOROPHENOL	100		88.1	ug/L	88.1	
LCS	Q1281845	HLI	2,4,6-TRICHLOROPHENOL	100		87.3	ug/L	87.3	
			Date and time of analysis	21-SEP-01	18:09:00				
SAMPLE	A566287		See Cert. of Analysis, Rep: 0						
			Date and time of analysis	21-SEP-01	18:49:00				a adamai
SAMPLE	A566288		See Cert. of Analysis, Rep: 0						
			Date and time of analysis	21-SEP-01	19:30:00				
SAMPLE	A566289	l nga jangan	See Cert. of Analysis, Rep: 0						
			Date and time of analysis	21-SEP-01	20:10:00			vele v e . :	ini bili
SAMPLE	A566290		See Cert. of Analysis, Rep: 0		 			www.www	VW-27 1 A
		***************************************	Date and time of analysis	21-SEP-01	20:51:00				
SAMPLE	A566291	***************************************	See Cert. of Analysis, Rep: 0	0.4	24 24 22				
54451 F	*F//202		Date and time of analysis	21-SEP-01	21:31:00				
SAMPLE	A566292	w 	See Cert. of Analysis, Rep: 0	24 2-2 24	00 40 00				
OAMD! F	A566293		Date and time of analysis	21-SEP-01	22:12:00				
SAMPLE	A200273		See Cert. of Analysis, Rep: 0	21 050 01	12:44:00				
041.04	Q1283463		Date and time of analysis	21-SEP-01 0.8570	12:44:00			. 30 30.00 30	7.0
CALO1 CALO1	Q1283463		PYRIDINE 2-PICOLINE	1.0147	***	************************************			3.8
CALD1	Q1283463		PHENOL	1.3039					4.9 13.2
CALD1	Q1283463		BIS(2+CHLOROETHYL)ETHER	0.9046					17.1
CALO1	Q1283463		2-CHLOROPHENOL	1.2266					14.6
CALO1	01283463		1.3-DICHLOROBENZENE (M-DICHLOROBENZ					 V.::::::::::::::::::::::::::::::	13.6
CALO1	Q1283463		1,4-DICHLOROBENZENE (P-DICHLOROBENZ	***************************************			M		14.2
CALO1	Q1283463		1,2-DICHLOROBENZENE (O-DICHLOROBENZ			e cha las ca vel			15.4
CAL01	Q1283463		BENZYL ALCOHOL	0.7281			***************************************		9.7
CALO1	Q1283463		2-METHYLPHENOL (O-CRESOL)	1.0246					12.4
CAL01	Q1283463		BIS(2-CHLOROISOPROPYL)ETHER	1.4535		riii i iirgiila lariii			, 11.3
CALD1	Q1283463		N-NITROSO-DI-N-PROPYLAMINE	0.6026					10.5
CAL01	Q1283463		4-METHYLPHENOL (P-CRESOL)	1.0041					15.8
CALO1	Q1283463		HEXACHLOROETHANE	0.4575					19.1
CAL01	Q1283463		NITROBENZENE .	0.2413					9.4
CALO1	Q1283463		1 SOPHORONE	0.4602					9.4
CAL01	Q1283463		2-NITROPHENOL	0.1599					18.6
CAL01	01283463		2,4-DIMETHYLPHENOL	0.2944					11
CAL01	Q1283463		BIS(2-CHLOROETHOXY)METHANE	0.3109					11.8
CALD1	Q1283463		2,4-DICHLOROPHENOL	0.2769					10.3
CAL01	Q1283463		BENZOIC ACID	0.1326					57.5
CALO1	Q1283463		1,2,4-TRICHLOROBENZENE	0.2985					15
CAL01	Q1283463		NAPHTHALENE	0.9408					15.9
CALO1	Q1283463		4-CHLOROANILINE	0.3887					7.9
CAL01	Q1283463		HEXACHLOROBUTAD I ENE	0.1428					17.3
CALO1	01283463		4-CHLORO-3-METHYLPHENOL (P-CHLORO-N	- 0.2351					9.1
CALO1	01283463		2-METHYLNAPHTHALENE	0.6162					13.8
CALD1	Q1283463		HEXACHLOROCYCLOPENTADIENE	0.2091					16
CAL01	Q1283463		1,2,4,5-TETRACHLOROBENZENE	0.4511					17.8
CALO1	Q1283463		2,4,6-TRICHLOROPHENOL	0.3588					11.3
CAL01	Q1283463		2,4,5-TRICHLOROPHENOL	0.3769					9.7
		i							

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QC Type La	ab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
lana managan kan	Q1283463		2-CHLORONAPHTHALENE	1.1490					15.7
CAL01	Q1283463		2-NITROANILINE (O-NITROANILINE)	0.2369					11.1
CALD1	Q1283463		DIMETHYLPHTHALATE	1.2139					18.8
CAL01	Q1283463		2,6-DINITROTOLUENE	0.2321					7.4
CALO1	Q1283463		ACENAPHTHYLENE	1.7694					18.7
CALO1	Q1283463		3-NITROANILINE (M-NITROANILINE)	0.2590					11.5
[Q1283463		ACENAPHTHENE	1.1086					15.3
CAL01	Q1283463		2,4-DINITROPHENOL	0.0686					68.8
CAL01	Q1283463		4-NITROPHENOL	0.1102					10.8
CAL01	Q1283463		DIBENZOFURAN	1.4795					16.3
CAL01	Q1283463		2,4-DINITROTOLUENE	0.3157					17.8
CAL01	Q1283463		2,3,4,6-TETRACHLOROPHENOL	0.2207					7
CALO1	Q1283463	Darkaren hartika Bileralaria	DIETHYLPHTHALATE	1,2106					16.7
CAL01	Q1283463		FLUORENE	1.2120					16.7
CAL01	Q1283463		4-CHLOROPHENYL-PHENYLETHER	0.5439					15.1
CALO1	Q1283463		4-NITROANILINE (P-NITROANILINE)	0.2773		3			7.7
CALO1	01283463		N-NITROSODIPHENYLAMINE	0.5472					16
CAL01	Q1283463		4-BROMODIPHENYL ETHER	0.1360					23.9
CALD1	Q1283463		HEXACHLOROBENZENE	0.1234					17
CAL01	Q1283463		PENTACHLOROPHENOL	0.0771					12.3
CALO1	Q1283463		PHENANTHRENE	1.0025					17.3
CAL01	Q1283463		ANTHRACENE	1.0511					17.8
CALO1	Q1283463		CARBAZOLE	1.7832					19.5
CALO1	Q1283463		DI-N-BUTYLPHTHALATE	1.1954					20.8
CALO1	Q1283463		FLUORANTHENE	0.9741					20.7
CALO1	Q1283463		PYRENE	1.9184					9.1
CAL01	Q1283463		BENZYLBUTYLPHTHALATE (BUTYLBENZYLP)	T 0.9814					8.3
CAL01	Q1283463		3,3'-DICHLOROBENZIDINE	0.2522					7.7
CAL01	Q1283463		CHRYSENE	1.4288		AND THE CONTRACT OF THE CONTRA			8.9
CAL01	Q1283463		BIS(2-ETHYLHEXYL)PHTHALATE	1.3419					9.2
CAL01	Q1283463		DI-N-OCTYLPHTHALATE	2.9146					8
	Q1283463		BENZO(B)FLUORANTHENE (3,4-BENZOFLUO	R 1.3530					9.4
71744 Marian Ing 2000	01283463		BENZO(K) FLUORANTHENE	1.2644					13.9
	01283463		BENZO(A)PYRENE	1.1730		.,			11.9
	01283463		INDENO(1,2,3-CD)PYRENE	0.7027					10.5
	Q1283463		DIBENZ(A,H)ANTHRACENE	0.7057		e de martin			7.6
19 (00) 14 (1) 14 (1) 14 (1) 15 (1)	Q1283463		BENZO(G,H,I)PERYLENE	0.7142					12.3
	Q1283463		2-FLUOROPHENOL	1.0678		· ··· · · · · · · · · · · · · · · · ·			8.2
	Q1283463		PHENOL-D5	1.2152				WW.15:	10.6
A	Q1283463		NITROBENZENE-D5	0.2375	W A	i Markitana da marka a marka a min			11.6
***************************************	Q1283463		2-FLUOROBIPHENYL	1.2794					16.6
	Q1283463		2,4,6-TRIBROMOPHENOL	0.0512					9.1
CAL01	Q1283463		TERPHENYL-D14	1.0726					12.3
Run: R420 ANALYTICA		Analyst.: l Reviewer: l			nstrument:	GC/MS SVOA		<u> </u>	
			Date and time of analysis	26-SEP-01	18:15:00				
SP102	01282136	A566575	ACENAPHTHENE	0	204	192	ug/L	94.1	
SP102 (01282136	A566575	ACENAPHTHYLENE	0	204	188	ug/L	92.2	
SP102 (Q1282136	A566575	ANTHRACENE	0	204	191	ug/L	93.6	
SP102 (01282136	A566575	BENZO(A)PYRENE	0	204	203	ug/L	99.5	
SP102	01282136	A566575	BENZO(B)FLUORANTHENE (3,4-BENZOFLUO	R O	204	199	ug/L	97.5	
SP102 (Q1282136	A566575	BENZO(G,H,1)PERYLENE	0	204	264	ug/L	129.4	**************************************
SP102 (1282136	A566575	BENZO(K)FLUORANTHENE	0	204	183	ug/L	89.7	
	1282136	A566575	BENZYL ALCOHOL	0	204	217	ug/L	106.4	2
	A.F.T.	wa WWW			V		. + A., WALAN		2007,000000

- 1. <u>Agreement</u>- To initiate services. Client must sign the Heritage Laboratory Services Quotation form and submit a written purchase order. Submittal of a purchase order and/or samples constitutes acceptance and acknowledgment by Client to be bound by this Agreement.
- 2. <u>Fees- Heritage shall provide services at the prices stated in its Quotation. Heritage reserves the right to change prices after providing Client with a 30 day notification.</u>
- 3. <u>Taxes- Prices do not include taxes.</u> It is the Client's responsibility to provide documentation to Heritage if the Client is exempt from tax liability.
- 4. <u>Payment</u> invoices are payable on receipt. All outstanding balances unpaid after 30 days of Client's receipt of invoices are subject to interest, either 1.5% per month or the amount permissible under applicable law.
- 5. <u>Samples</u> Samples delivered to Heritage by others are taken "as is". Heritage makes no guarantee nor representation as to chain-of-custody prior to acceptance by Heritage. Heritage will not be responsible for exceeding holding times if the samples are not promptly delivered. All samples delivered on the weekends or after hours must be scheduled in advance.
- 6. <u>Sample Retention</u>- Samples and sample derivatives will be kept for 15 days after the report of analysis is made. Sample storage beyond 15 days is available at extra cost.
- 7. <u>Sample Analysis</u>— Heritage uses analytical methods which conform with the U.S. EPA, State Agency, American Society for Testing & Materials, Association of Official Analytical Chemists, Standard Methods for the Examination of Water and Wastewater or other recognized methodologies. Records of Heritage Laboratory procedures, including the Heritage Quality Assurance Program Plan, may be inspected by Clients.
- 8. <u>Sample Reports</u>- Heritage shall provide a written report of the results of its services which will include test results betterion limits, dates of analysis, the analyst, and analytical method references. Additional documentation and special reports are available for additional fees, but must be arranged prior to sample deliven.
- 9. <u>Confidentially</u> Heritage shall not disclose results or any other information provided by the Client to any third party, except where required by iaw. Heritage shall have no obligation to oppose any legal proceeding taken to obtain laboratory test results of confidential information.
- 10. Additional or Different Tasks- If additional analytical festing is necessary due to sample matrix interferences, multi-phase cantilles by any factor not disclosed to Heritage prior to its acceptance of the sample, the Client will be profitted of the additional post and will be given the opportunity to agree to the additional work or tatum of the particle.
- 11. <u>Cancellation</u> if the Chem cancels its order after the sample has been prepped and analyzed, the full fee in Hemage's curvation will apply. A \$25 cancellation fee will apply if a sample is delivered and accepted at the laboratory.
- 12. <u>Indemolification</u>— Orient agrees to indemnify and hold harmless Heritage from all loss, damage, cost and expensed individing afterney less from any suit, claim or action against Heritage or which names Heritage as a partly because.
 - a. Hemage pontained analysis or wom for the Ollent.
 - b. of negligent sats, errors or omissions of the Client; or
 - of Client's failure to perform its obligations under this Agreement.

Heritags is usbility associated with the performance of the work shall be limited to the reperformance of the work or refund of compensation received from the Client.

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
SP102	01282136	A566575	BENZYLBUTYLPHTHALATE (BUTYLBENZYLP	нт О	204	228	ug/L	111.8	
SP102	Q1282136	A566575	BIS(2-CHLOROETHOXY)METHANE	0	204	220	ug/L	107.8	da dibutus
SP102	Q1282136	A566575	BIS(2-CHLOROETHYL)ETHER	0	204	188	ug/L	92.2	Vales das
SP102	Q1282136	A566575	BIS(2-CHLOROISOPROPYL)ETHER	0	204	254	ug/L	124.5	1
SPI02	Q1282136	A566575	BIS(2-ETHYLHEXYL)PHTHALATE	0	204	228	ug/L	111.8	antan
SP102	Q1282136	A566575	4-BROMODIPHENYL ETHER	0	204	221	ug/L	108.3	1
SPI02	Q1282136	A566575	CARBAZOLE	o	204	214	ug/L	104.9	
SP102	Q1282136	A566575	4-CHLOROANILINE	0	204	221	ug/L	108.3	1
SP102	Q1282136	A566575	2-CHLORONAPHTHALENE	0	204	206	ug/L	101	
SP102	Q1282136	A566575	4-CHLOROPHENYL-PHENYLETHER	0	204	212	ug/L	103.9	
SP102	Q1282136	A566575	CHRYSENE	0	204	209	ug/L	102.5	
SP102	Q1282136	A566575	DIBENZ(A, H)ANTHRACENE	0	204	266	ug/L	130.4	
SP102	Q1282136	A566575	DIBENZOFURAN	0	204	202	ug/L	99	
SP102	Q1282136	A566575	1,2-DICHLOROBENZENE (O-DICHLOROBEN	ZE O	204	188	ug/L	92.2	Ĭ
SP102	Q1282136	A566575	1,3-DICHLOROBENZENE (M-DICHLOROBEN	ZE O	204	188	ug/L	92.2	kattati
SP102	Q1282136	A566575	1,4-DICHLOROBENZENE (P-DICHLOROBEN	ZE O	204	187	ug/L	91.7	Ī
SPI02	Q1282136	A566575	3,3/-DICHLOROBENZIDINE	0	204	269	ug/L	131.9	
SP102	Q1282136	A566575	DIETHYLPHTHALATE	0	204	191	ug/L	93.6	
SP102	Q1282136	A566575	DIMETHYLPHTHALATE	0	204	213	ug/L	104.4	
SP102	Q1282136	A566575	DI-N-BUTYLPHTHALATE	0	204	212	ug/L	103.9	
SPI02	Q1282136	A566575	2,4-DINITROTOLUENE	0	204	215	ug/L	105.4	
SP102	Q1282136	A566575	2,6-DINITROTOLUENE	0	204	222	ug/Ľ	108.8	
SP102	Q1282136	A566575	DI-N-OCTYLPHTHALATE	0	204	193	ug/L	94.6	
SP102	Q1282136	A566575	FLUORANTHENE	0	204	- 186	ug/L	91.2	
SP102	Q1282136	A566575	FLUORENE	0	204	170	ug/L	83.3	73 Y 73
SP102	01282136	A566575	HEXACHLOROBENZENE	0	204	215	ug/L	105.4	
SPI02	Q1282136	A566575	HEXACHLOROBUTAD LENE	0	204	194	ug/L	95.1	
SP102	Q1282136	A566575	HEXACHLOROCYCLOPENTAD I ENE	0	204	187	ug/L	91.7	l
SP102	Q1282136	A566575	HEXACHLOROETHANE	0	204	186	ug/L	91.2	
SPI02	Q1282136	A566575	INDENO(1,2,3-CD)PYRENE	0	204	266	ug/L	130.4	
SP102	Q1282136	A566575	ISOPHORONE	0	204	218	ug/L	106.9	
SP102	Q1282136	A566575	2-METHYLNAPHTHALENE	0	204	206	ug/L	101	
SPI02	Q1282136	A566575	NAPHTHALENE	0	204	186	ug/L	91.2	
SP102	Q1282136	A566575	2-NITROANILINE (O-NITROANILINE)	0	204	233	ug/L	114.2	
SP102	Q1282136	A566575	3-NITROANILINE (M-NITROANILINE)	0	204	245	ug/L	120.1	Historia
SP102	01282136	A566575	4-NITROANILINE (P-NITROANILINE)	0	204	207	ug/L	101.5	
SP102	Q1282136	A566575	NITROBENZENE	0	204	205	ug/L	100.5	
SPI02	Q1282136	A566575	N-NITROSODIPHENYLAMINE	0	204	233	ug/L	114.2	
SP102	Q1282136	A566575	N-NITROSO-DI-N-PROPYLAMINE	0	204	221	ug/L	108.3	
SP102	Q1282136	A566575	PHENANTHRENE	0	204	208	ug/L	102	
SP102	01282136	A566575	2-PICOLINE	0	204	175	ug/L	85.8	
SPI02	01282136	A566575	PYRENE	0	204	206	ug/L	101	
SP102	Q1282136	A566575	PYRIDINE	0	204	157	ug/L	77	
SPI02	01282136	A566575	1,2,4,5-TETRACHLOROBENZENE	0	204	192	ug/L	94.1	 - '
SP102	Q1282136	A566575	1,2,4-TRICHLOROBENZENE	0	204	196	ug/L	96.1	rii wa
SP102	01282136	A566575	BENZOIC ACID	0	204	164	ug/L	80.4	**. *?
SP102	01282136	A566575	4-CHLORO-3-METHYLPHENOL (P-CHLORO-N	1	204	203	ug/L	99.5	
SP102	Q1282136	A566575	2-CHLOROPHENOL	0	204	180	ug/L	88.2	. 1.33
SPI02	Q1282136	A566575	2,44DICHLOROPHENOL	0	204	195	ug/L	95.6	
SP102	Q1282136	A566575	2,4-DIMETHYLPHENOL	0 .	204	178	ug/L	87.3	
SP102	01282136	A566575	2,4-DINITROPHENOL	0	204	254	ug/L	124.5	
SP102	Q1282136	A566575	2-METHYLPHENOL (O-CRESOL)	0	204	180	ug/L	88.2	
SP102	01282136	A566575	4-METHYLPHENOL (P-CRESOL)	0	204	196	ug/L	96.1	
SPI02	Q1282136	A566575	2-NITROPHENOL	0	204	224	ug/L	109.8	

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- 11. Garcellation— it the Client cancels its order after the sample has been prepped and analyzed, the full fee in meritagets quitiblish will apply. A \$25 cancellation fee will apply if a sample is delivered and accepted at the laborator.
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 - a. Hentage performed analysis or work for the Client.
 - b. of negligent acts, errors or omissions of the Client; or
 - of Olient's failure to perform its obligations under this Agreement.

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QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
SP102	01282136	A566575	4-NITROPHENOL	0	204	124	ug/L	60.8	kii lin
SPI02	Q1282136	A566575	PENTACHLOROPHENOL	0	204	219	ug/L	107.4	
SPI02	Q1282136	A566575	PHENOL	0	204	127	ug/L	62.3	
SP102	Q1282136	A566575	2,3,4,6-TETRACHLOROPHENOL	0	204	186	ug/L	91.2	1
SP102	Q1282136	A566575	2,4,5-TRICHLOROPHENOL	0	204	207	ug/L	101.5	
SP102	Q1282136	A566575	2,4,6-TR1CHLOROPHENOL	0	204	213	ug/L	104.4	
AMATO AMAT			Date and time of analysis	27-SEP-01	10:29:00				\$ 100 mm/s
DPS02	Q1282137	A566575	ACENAPHTHENE	0	204	200	ug/L	98	4.3
DPS02	01282137	A566575	ACENAPHTHYLENE	0	204	200	ug/L	98	6
DPS02	Q1282137	A566575	ANTHRACENE	0	204	201	ug/L	98.5	4.9
DPS02	Q1282137	A566575	BENZO(A)PYRENE	0	204	211	ug/L	103.4	3.8
DPS02	Q1282137	A566575	BENZO(B)FLUORANTHENE (3,4-BENZOFLUO	OR O	204	218	ug/L	106.9	9.3
DPS02	Q1282137	A566575	BENZO(G,H,I)PERYLENE	0	204	263	ug/L	128.9	.2
DP\$02	Q1282137	A566575	BENZO(K)FLUORANTHENE	0 .	204	188	ug/L	92.2	2.6
DPS02	01282137	A566575	BENZYL ALCOHOL	· · · o	204	219	ug/L	107.4	.9
DPS02	01282137	A566575	BENZYLBUTYLPHTHALATE (BUTYLBENZYLPI	T	204	220	ug/L	107.8	3.4
DPS02	Q1282137	A566575	BIS(2-CHLOROETHOXY)METHANE	0	204	227	ug/L	111.3	3
DP\$02	Q1282137	A566575	BIS(2-CHLOROETHYL)ETHER	0	204	205	ug/L	100.5	8.9
DPS02	Q1282137	A566575	BIS(2-CHLOROISOPROPYL)ETHER	0	204	* 273	ug/L	133.8	7
DPS02	01282137	A566575	BIS(2-ETHYLHEXYL)PHTHALATE	0	204	233	ug/L	114.2	2.2
DPS02	01282137	A566575	4-BROMODIPHENYL ETHER	0	204	220	ug/L	107.8	.3
DP\$02	Q1282137	A566575	CARBAZOLE	0 .	204	232	ug/L	113.7	8.1
DPS02	01282137	A566575	4-CHLOROANILINE	0	204	214	ug/L	104.9	3.3
DP\$02	Q1282137	A566575	2-CHLORONAPHTHALENE	0	204	211	ug/L	103.4	2.4
DPS02	01282137	A566575	4-CHLOROPHENYL-PHENYLETHER	0	204	222	ug/L	108.8	4.7
DP\$02	Q1282137	A566575	CHRYSENE	0	204	215	ug/L	105.4	3
DPS02	Q1282137	A566575	DIBENZ(A, H)ANTHRACENE	0	204	260	ug/L	127.5	2.1
DPS02	01282137	A566575	DIBENZOFURAN	0	204	214	ug/L	104.9	5.8
DPS02	Q1282137	A566575	1,2-DICHLOROBENZENE (O-DICHLOROBENZ	FO	204	204	ug/L	100	8.2
DP\$02	Q1282137	A566575	1,3-DICHLOROBENZENE (M-DICHLOROBENZ		204	203	ug/L	99.5	7.5
DPS02	Q1282137	A566575	1,4-DICHLOROBENZENE (P-DICHLOROBENZ	1 1	204	202	ug/L	99	7.9
DPS02	Q1282137	A566575	3,3'-DICHLOROBENZIDINE	0	204	268	ug/L	131.4	.4
DP\$02	Q1282137	A566575	DIETHYLPHTHALATE	0	204	207	ug/L	101.5	8.2
DPS02	Q1282137	A566575	DIMETHYLPHTHALATE	0	204	227	ug/L	111.3	6.6
DPSOZ	Q1282137	A566575	DI-N-BUTYLPHTHALATE	0	204	227	ug/L	111.3	6.9
DPS02	Q1282137	A566575	2.4-DINITROTOLUENE	0	204	234	ug/L	114.7	8.5
DPS02	Q1282137	A566575	2,6-DINITROTOLUENE	0	204	238	ug/L	116.7	7
DPS02	Q1282137	A566575	DI-N-OCTYLPHTHALATE	0	204	211	ug/L	103.4	8.9
DPS02	Q1282137	A566575	FLUORANTHENE	0	204	209	ug/L	102.5	11.7
DP\$02	01282137	A566575	FLUORENE	0	204	182	ug/L	89.2	6.8
DPS02	Q1282137	A566575	HEXACHLOROBENZENE	0	204	214	ug/L	104.9	.3
DPS02	Q1282137	A566575	HEXACHLOROBUTAD I ENE	0	204	208	ug/L	102	7.2
DPS02	Q1282137	A566575	HEXACHLOROCYCLOPENTADIENE	0	204	249	ug/L	122.1	28.3
DPS02	Q1282137	A566575	HEXACHLOROETHANE	0	204	206	ug/L	101	10.4
DPS02	Q1282137	A566575	INDENO(1,2,3-CD)PYRENE	0	204	264	ug/L	129.4	.8
DPS02	Q1282137	A566575	ISOPHORONE	0	204	225	ug/L	110.3	3.4
DPS02	91282137	A566575	2-METHYLNAPHTHALENE	0	204	218	ug/L	106.9	6
DPS02	Q1282137	A566575	NAPHTHALENE	0	204	198	ug/L	97.1	6.3
DPS02	91282137	A566575	2-NITROANILINE (O-NITROANILINE)	0	204	243	ug/L	119.1	4.2
DPS02	Q1282137	A566575	3-NITROANILINE (M-NITROANILINE)	0	204	264	ug/L	129.4	7.5
DPS02	Q1282137	A566575	4-NITROANILINE (P-NITROANILINE)	0	204	250	ug/L	122.5	18.9
DP\$02	Q1282137	A566575	NITROBENZENE	0	204	216	ug/L	105.9	5.2
DPS02	Q1282137	A566575	N-NITROSODIPHENYLAMINE		204	231	ug/L	113.2	.7
DP\$02	Q1282137	A566575	N-NITROSO-DI-N-PROPYLAMINE	0	204	226	ug/L	110.8	2.1
51 302	4 1202 137		N N. INOSO DI N INOFILMINE						'

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QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
DPS02	Q1282137	A566575	PHENANTHRENE	0	204	215	ug/L	105.4	3.4
DPS02	Q1282137	A566575	2-PICOLINE	0	204	152	ug/L	74.5	14.1
DPS02	Q1282137	A566575	PYRENE	0	204	203	ug/L	99.5	1.5
DPS02	Q1282137	A566575	PYRIDINE	0	204	142	ug/L	69.6	10.2
DPS02	01282137	A566575	1,2,4,5-TETRACHLOROBENZENE	0	204	195	ug/L	95.6	1.6
DPS02	Q1282137	A566575	1,2,4-TRICHLOROBENZENE	0	204	209	ug/L	102.5	6.4
DPS02	Q1282137	A566575	BENZOIC ACID	0	204	123	ug/L	60.3	28.6
DPS02	Q1282137	A566575	4-CHLORO-3-METHYLPHENOL (P-CHLORO-N	y- 0	204	213	ug/L	104.4	4.8
DPS02	Q1282137	A566575	2-CHLOROPHENOL	0	204	191	ug/L	93.6	6.1
DPS02	Q1282137	A566575	2,4-DICHLOROPHENOL	0	204	208	ug/L	102	6.5
DPS02	Q1282137	A566575	2,4-DIMETHYLPHENOL	0	204	159	ug/L	77.9	11.4
DPS02	Q1282137	A566575	2,4-DINITROPHENOL	0	204	* 363	ug/L	177.9	35.3
DPS02	01282137	A566575	2-METHYLPHENOL (O-CRESOL)	0	204	185	ug/L	90.7	3
DPS02	q1282137	A566575	4-METHYLPHENOL (P-CRESOL)	0	204	204	ug/L	100	4.2
DPS02	Q1282137	A566575	2-NITROPHENOL	0	204	231	ug/L	113.2	2.9
DPS02	Q1282137	A566575	4-NITROPHENOL	0	204	157	ug/L	77	23.2
DPS02	Q1282137	A566575	PENTACHLOROPHENOL	0	204	251	ug/L	123	13.7
DPS02	Q1282137	A566575	PHENOL	0	204	138	ug/L	67.6	8
DPS02	Q1282137	A566575	2,3,4,6-TETRACHLOROPHENOL	0	204	204	ug/L	100	9.4
DPS02	Q1282137	A566575	2,4,5-TRICHLOROPHENOL	0	204	216	ug/L	105.9	4.3
DPS02	Q1282137	A566575	2,4,6-TRICHLOROPHENOL	0	204	219	ug/L	107.4	2.7

Comments Q1281844 Analytes present greater than 1/2 of the detection limit are reported.

Run: R4		Analyst.: Reviewer: F			nstrument:	GC/MS VOA			
C Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
			Date and time of analysis	19-SEP-01	02:05:00				
CCVD	Q1282195		DICHLORODIFLUOROMETHANE	0.3190		0.3551			11.
CCVD	Q1282195		CHLOROMETHANE	0.2134		0.1782			16.
CCVD	Q1282195		VINYL CHLORIDE	0.2109		0.1976			6.3
CCVD	Q1282195		BROMOMETHANE	0.1587		0.2411			51.
CCVD	Q1282195		CHLOROETHANE	0.1403		0.1657	ł		18.
CVD	Q1282195		TRICHLOROFLUOROMETHANE	0.6655		1.0014			50.
CVD	Q1282195		ACROLEIN	0.0096		0.0056			41.
CVD	Q1282195		1,1-DICHLOROETHENE	0.2880		0.3334			15.
CVD	Q1282195		ACETONE (2-PROPANONE)	0.0171		0.0197	İ		15.
CVD	Q1282195		CARBON DISULFIDE	0.7377	J.a	0.7331		[83 4. N.W]	.6
CVD	Q1282195		DICHLOROMETHANE (METHYLENE CHLORIDE) 0.2589		0.2725			5.3
CVD	Q1282195		ACRYLONITRILE	0.0249		0.0301			20
CVD	Q1282195		1,1-DICHLOROETHANE	0.6201		0.6812			9.5
CVD	Q1282195		VINYL ACETATE	0.5144		0.5931			15.
CVD	Q1282195		METHYL ETHYL KETONE	0.0229		0.0222]		3.1
CVD	Q1282195		TETRAHYDROFURAN	0.0131		0.0106			19.
CVD	Q1282195		CHLOROFORM	0.6758		0.8063	'		19.
:CVD	01282195		1,1,1-TRICHLOROETHANE	0.6578		0.9889			50.
CVD	Q1282195		CARBON TETRACHLORIDE	0.6712		1.1057			64.
CVD	Q1282195		BENZENE	0.7184		0.7767			8.1
CVD	01282195		1.2-DICHLOROETHANE	0.2611		0.4024		1	54.

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QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
CCVD	Q1282195		1,2-DICHLOROPROPANE	0.2756		0.2772			.6
CCVD	Q1282195		CIS-1,3-DICHLOROPROPENE	0.3476		0.3823			10
CCAD	Q1282195		TOLUENE	0.3965		0.4711			18.8
CCVD	Q1282195		TRANS-1,3-DICHLOROPROPENE	0.2152		0.2724		l	26.6
CCVD	Q1282195	1 111	1,1,2=TRICHLOROETHANE	0,1318		0.1448			9.9
CCAD	Q1282195		TETRACHLOROETHENE	0.9375		1.1130			18.7
CCVD	Q1282195		2-HEXANONE	0.0685		0.0639			6.7
CCAD	Q1282195		DIBROMOCHLOROMETHANE	0.6362		0.7080			11.3
CCVD	01282195		CHLOROBENZENE	0.8709		0.9767			12.1
CCVD	Q1282195		STYRENE	0.6408	 	0.7674		AND AND ARE SHEET	19.8
CCVD	Q1282195		BROMOFORM	0.3650		0.4446			21.8
CCVD	01282195		1,1,2,2-TETRACHLOROETHANE	0.5352		0.4039	Ann galaler	93.15 - A.A-	24.5
CCVD	01282195		ETHYL BENZENE	1.4294		1.6896 0.3448			18.2
CCVD	Q1282195 Q1282195	ar i maaaan ji aa	DICHLOROETHANE-D4 TOLUENE-D8	0.2662 0.7050	M. 1000	0.3448	la como macon	o amayy y	29.5 23.9
CCVD	Q1282195		4-BROMOFLUOROBENZENE	1.5566		1.3906		ATTENDED A	10.7
CCVD	W1202177		Date and time of analysis	19-SEP-01	02:53:00	1.5700			10.7
BLA01	Q1282196		DICHLORODIFLUOROMETHANE	·		BDL 1.0	ug/L		PHOTO E
BLA01	Q1282196		CHLOROMETHANE			BDL 1.0	ug/L	979 (6.6)	. 34341 L
BLA01	Q1282196		VINYL CHLORIDE			BDL 2.0	ug/L		
BLA01	Q1282196		BROMOMETHANE			BDL 1.0	ug/L		
BLA01	Q1282196		CHLOROETHANE	1277000, 1, 12,222.2		BDL 1.0	ug/L		****** *******************************
BLA01	Q1282196		TRICHLOROFLUOROMETHANE			BDL 1.0	ug/L		
BLA01	Q1282196		ACROLEIN	No mark to a		BDL 25.	ug/L		· ···· · · · · · · · · · · · · · · · ·
BLA01	Q1282196		1,1-DICHLOROETHENE			BDL 1.0	ug/L		
BLA01	Q1282196		ACETONE (2-PROPANONE)			BDL 10.	ug/L		
BLA01	Q1282196		CARBON DISULFIDE	100000000000000000000000000000000000000		BDL 1.0	ug/L		######################################
BLA01	Q1282196	,	DICHLOROMETHANE (METHYLENE CHLORIDE)		BDL 1.0	ug/L		
BLA01	Q1282196		ACRYLONITRILE			BDL 10.	ug/L		**************************************
BLA01	Q1282196	,	1,1-DICHLOROETHANE			BDL 1.0	ug/L		
BLA01	Q1282196		VINYL ACETATE			BDL 10.	ug/L		
BLA01	Q1282196		METHYL ETHYL KETONE	}		BDL 5.0	ug/L		
BLA01	Q1282196		TETRAHYDROFURAN			BDL 20.	.ug/L		
BLA01	Q1282196	Walani Walani	CHLOROFORM		m	BDL 1.0	ug/L	34.3.3.3.34.34.3	g Agan wa
BLAD1 BLAO1	Q1282196 Q1282196		1,1,1-TRICHLOROETHANE CARBON TETRACHLORIDE			BDL 1.0	ug/L ug/L		
BLA01	Q1282196		BENZENE			BDL 1.0	ug/L	la el 1946 / I	
BLA01	Q1282196		1,2-DICHLOROETHANE			BDL 1.0	ug/L	[TUW.AXXAV	
BLA01	Q1282196		TRICHLOROETHENE		w 1	BDL 1.0	ug/L		
BLA01	Q1282196	Walterson it has a be-	1,2-DICHLOROPROPANE	LIMPONY, I.W.		BDL 1.0	ug/L		*********
BLA01	Q1282196		CIS-1,3-DICHLOROPROPENE			BDL 1.0	ug/L		
BLA01	Q1282196		TOLUENE	4 9888.4 2884	V.A.V.X. * A	BDL 1.0	ug/L		300000
BLAD1	Q1282196		TRANS-1,3-DICHLOROPROPENE			BDL 1.0	ug/L	A promar .	
BLA01	Q1282196		1,1,2-TRICHLOROETHANE			BDL 1.0	ug/L		
BLA01	Q1282196		TETRACHLOROETHENE			BDL 1.0	ug/L		
BLA01	Q1282196		2-HEXANONE			BDL 10.	ug/L		
BLA01	01282196		DIBROMOCHLOROMETHANE			BDL 1.0	ug/L		
BLA01	01282196		CHLOROBENZENE			BDL 1.0	ug/L	l.	
BLA01	Q1282196		STYRENE			BDL 1.0	ug/L	a sirvinal	iyw. i
BLA01	01282196		BROMOFORM			BDL 1.0	ug/L	ال يعيي	
BLA01	Q1282196		1,1,2,2-TETRACHLOROETHANE	20.5 W		BDL 1.0	ug/L		Marri
BLA01	Q1282196		ETHYL BENZENE		w	BDL 1.0	ug/L		200 11 2 2
BLA01	Q1282196		DICHLOROETHANE-D4					115	MALE
BLA01	Q1282196		TOLUENE-D8					111	

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BLA01	Q1282196		4-BROMOFLUOROBENZENE					90	
			Date and time of analysis	19-SEP-01	07:57:00				127 730
SAMPLE	A566287		See Cert, of Analysis, Rep. 0						
			Date and time of analysis	19-SEP-01	08:31:00	,		W 1176.27	
SAMPLE	A566288		See Cert. of Analysis, Rep: 0						
		*************	Date and time of analysis	19-SEP-01	09:07:00				
SAMPLE	A566289		See Cert. of Analysis, Rep: 0	PW FEELING				<u> </u>	<u> </u>
			Date and time of analysis	19-SEP-01	09:41:00				
SAMPLE	A566290	kriaan sa	See Cert. of Analysis, Rep: 0	gala ili ilala Mariti a ala		lwyww.			
		20.2227 . A.222	Date and time of analysis	19-SEP-01	10:17:00	TALLANA. TALL			1 5 7 W .
SAMPLE	A566291		See Cert, of Analysis, Rep: 0						and the
			Date and time of analysis	19-SEP-01	10:54:00				
SAMPLE	A566292		See Cert. of Analysis, Rep: 0						1841. 8
walkin ku.		Anna i i Alfana	Date and time of analysis	19-SEP-01	11:30:00				
SPI01	Q1282198	A566290	BENZENE	0	10	8.14	ug/L	81.4	ha a an
SPI01	Q1282198	A566290	CARBON TETRACHLORIDE	0	10	13.7	ug/L	137	
SPI01	01282198	A566290	1,2-DICHLOROETHANE	0	10	12.3	ug/L	123	
SPI01	Q1282198	A566290	1,1-DICHLOROETHENE	0	10	9.18	ug/L	91.8	
SPI01	Q1282198	A566290	1,1,1-TRICHLOROETHANE	0	10	12.8	ug/L	128	
SPI01	Q1282198	A566290	TRICHLOROETHENE	0	10	9.98	ug/L	99.8	
SP101	Q1282198	A566290	VINYL CHLORIDE	0	10	8.86	ug/L	88.6	
SP101	Q1282198	A566290	BROMOD I CHLOROMETHANE	0 .	10	10.9	ug/L	109	
SP101	01282198	A566290	BROMOFORM	0	10	10.9	ug/L	109	
SPI01	Q1282198	A566290	BROMOMETHANE	0	10	8.07	ug/L	80.7	
1014S	Q1282198	A566290	CHLOROBENZENE	0	10	10.1	ug/L	101	
SP101	Q1282198	A566290	DIBROMOCHLOROMETHANE	0	10	9.84	ug/L	98.4	
SP101	Q1282198	A566290	CHLOROETHANE	0	10	9.36	ug/L	93.6	in the
SPI01	Q1282198	A566290	CHLOROFORM	0	10	10.4	ug/L	104	
SPI01	Q1282198	A566290	CHLOROMETHANE	0	10	8.36	ug/L	83.6	
SP101	Q1282198	A566290	DICHLOROMETHANE (METHYLENE CHLORIDE) 0	10	8.76	ug/L	87.6	
SP101	Q1282198	A566290	1,1-DICHLOROETHANE	0	10	8.61	ug/L	86.1	
SP101	Q1282198	A566290	1,2-DICHLOROPROPANE	0	10	8.48	ug/L.	84.8	
10192	Q1282198	A566290	CIS-1,3-DICHLOROPROPENE	0	10	8.54	ug/L	85.4	
10192	Q1282198	A566290	TRANS-1,3-DICHLOROPROPENE	0	10	9.25	ug/L	92.5	
SPI01	Q1282198	A566290	ETHYL BENZENE	0	10	10.6	ug/L	106	
SP101	Q1282198	A566290	STYRENE	0	10	8.3	ug/L	83	
SP101	Q1282198	A566290	1,1,2-TRICHLOROETHANE	0	10	9.69	ug/L	96.9	
SPI01	Q1282198	A566290	1,1,2,2-TETRACHLOROETHANE	0	10	8.15	ug/L	81.5	l
10148	Q1282198	A566290	TETRACHLOROETHENE	0	10	11.4	ug/L	114	
SP101	01282198	A566290	TOLUENE	0	10	10	ug/L	100	
SPI01	01282198	A566290	DICHLORODIFLUOROMETHANE	0 - 11 - 1	10	9.84	ug/L	98.4	
10148	Q1282198	A566290	TRICHLOROFLUOROMETHANE	0	10	12.6	ug/L	126	
SPI01	Q1282198	A566290	ACROLEIN	0	50	24.9	ug/L	49.8	
SP101	Q1282198	A566290	ACETONE (2-PROPANONE)	0	50	39.7	ug/L	79.4	
SP101	Q1282198	A566290	ACRYLONITRILE	0	50	39.2	ug/L	78.4	
SPI01	Q1282198	A566290	CARBON DISULFIDE	0	10	7.65	ug/L	76.5	
SPI01	Q1282198		VINYL ACETATE	0	10	6.05	ug/L	60.5	
SPI01	Q1282198	A566290	4-METHYL-2-PENTANONE	0	50	40.7	ug/L	81.4	
10142	Q1282198	A566290	2-HEXANONE	0	50	36.9	ug/L	73.8	
			Date and time of analysis	19-SEP-01	12:06:00			 	
DPS01	Q1282199	A566290	BENZENE	0	10	8.48	ug/L	84.8	4.1
DPS01	Q1282199	A566290	CARBON TETRACHLORIDE	0	. 10	13.3	ug/L	133	3.1
DPS01	Q1282199	A566290	1,2-DICHLOROETHANE	0	10:::::	12.5	ug/L	125	1.9
DPS01	Q1282199	A566290	1,1-DICHLOROETHENE	0	10	8.92	ug/L	89.2	2.9

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- <u>Cancellation</u> is the Olient cancels its order after the sample has been prepped and analyzed, the full feet in mentage cigotation will apply. A \$25 cancellation fee will apply if a sample is delivered and accepted at the lational time.
- 12. <u>Indemnification</u>— Citent agrees to indemnify and hold narmless Heritage from all loss, damage, cost and expenses, industing adorney fees from any suit, claim or action against Heritage or which names Heritage as a contribute see.
 - a. Heritage perform to analysis or work for the Client.
 - b. of nealigent abis, errors or omissions of the Client; or 1
 - c. of Client's failure to perform its obligations under this Agreement.

Historiage's Habitory associated with the performance of the work shall be limited to the reperformance of the work or refund of compensation received from the Client.

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	0bserved	Units	% Rec	RPD
DPS01	Q1282199	A566290	1,1,1-TRICHLOROETHANE	0	10	12.1	ug/L	121	5.2
DPS01	Q1282199	A566290	TRICHLOROETHENE	0	10	9.75	ug/L	97.5	2.3
DPS01	01282199	A566290	VINYL CHLORIDE	0	10	8.47	ug/L	84.7	4.5
DPS01	Q1282199	A566290	BROMODICHLOROMETHANE	0	10	11.3	ug/L	113	4
DPS01	Q1282199	A566290	BROMOFORM	0	10	10.5	ug/L	105	3.5
DPS01	Q1282199	A566290	BROMOMETHANE	0	10	12	ug/L	120	39.2
DPS01	Q1282199	A566290	CHLOROBENZENE	0	10	10.3	ug/L	103	2.5
DPS01	Q1282199	A566290	DIBROMOCHLOROMETHANE	0	10	9.97	ug/L	99.7	1.3
DPS01	Q1282199	A566290	CHLOROETHANE	0	10	9.36	ug/L	93.6	0
DPS01	Q1282199	A566290	CHLOROFORM	0	10	10.6	ug/L	106	1.4
DPS01	Q1282199	A566290	CHLOROMETHANE	0	10	7.68	ug/L	76.8	8.5
DPS01	Q1282199	A566290	DICHLOROMETHANE (METHYLENE CHLORIDE	> 0	10	8.12	ug/L	81.2	7.6
DPS01	Q1282199	A566290	1,1-DICHLOROETHANE	0	10	8.52	ug/L	85.2	1.1
DPS01	Q1282199	A566290	1,2-DICHLOROPROPANE	0	10	8.57	ug/L	85.7	1.1
DPS01	01282199	A566290	CIS-1,3-DICHLOROPROPENE	0	10	8.47	ug/L	84.7	.8
DPS01	Q1282199	A566290	TRANS-1,3-DICHLOROPROPENE	0	10	9.73	ug/L	97.3	5.1
DPS01	Q1282199	A566290	ETHYL BENZENE	0	10	10.7	Ug/L	107	.6
DPS01	Q1282199	A566290	STYRENE	0	10	8.72	ug/L	87.2	4.9
DPS01	Q1282199	A566290	1,1,2-TRICHLOROETHANE	0	10	8.68	ug/L	86.8	11
DPS01	Q1282199	A566290	1,1,2,2-TETRACHLOROETHANE	0	10	7.69	ug/L	76.9	5.8
DPS01	Q1282199	A566290	TETRACHLOROETHENE	0	10	10.4	ug/L	104	9.1
DPS01	Q1282199	A566290	TOLUENE	0	10_	9.89	ug/L	98.9	1.1
DPS01	91282199	A566290	DICHLORODIFLUOROMETHANE	0	10	9.32	ug/L	93,2	5.4
DPS01	Q1282199	A566290	TRICHLOROFLUOROMETHANE	0	10	11.8	ug/L	118	6.3
DPS01	Q1282199	A566290	ACROLEIN	0	50	28	ug/L	56	11.7
DPS01	Q1282199	A566290	ACETONE (2-PROPANONE)	701/1	50 ~	43.1	ug/L	86.2	8.2
DPS01	Q1282199	A566290	ACRYLONITRILE	0	50	27.4	ug/L	54.8	35.3
DPS01	Q1282199	A566290	CARBON DISULFIDE	o - ' ' '	10	8	ug/L	80	4.5
DPS01	Q1282199	A566290	VINYL ACETATE	0	10	7.94	ug/L	79.4	27
DPS01	Q1282199	A566290	4-METHYL-2-PENTANONE	0	50	46.4	ug/L	92.8	13.1
DPS01	Q1282199	A566290	2-HEXANONE	0	50	41.9	ug/L	83.8	12.7
			Date and time of analysis_	19-SEP-01	12:43:00	· .			l
SAMPLE	A566293		See Cert. of Analysis, Rep: 0						

Comments Q1282196 Analytes present greater than 1/2 of the detection limit are reported.

QC Sample Comments

BDL Below Detection Limit

Approved by: R.C. Source (A)

^{*} See Note for Parameter

< Less Than Lower Detection Limit

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- 12. <u>marmyfilostich</u>- Diem agrees to indemnify and hold harmless Heritage from all loss, damage, cost and extenses that one at oney fees from any suit, claim or action against Heritage or which names Heritage as a party ballouse.
 - all Herbagt performed analysis or work for the Client.
 - of nepligent and lettors or omissions of the Client; or
 - of Client's failure to perform its obligations under this Agreement.

heritage's lamility associated with the performance of the work shall be limited to the reperformance of the work or refund of compensation received from the Client.



TO ENSURE PROPER HANDLING OF S PLES PLEASE COMPLETE THIS ENTIRE FORM

HERITAGE ENVIRONMENTAL SERVICES

COMMERCIAL LABORATORY OPERATIONS

7901 West Morris Street

Indianapolis, Indiana 46231 (317) 243-0811 Fax (317) 486-5095 Co. Name: **Analyses Requested** Report To: (Note special detection limits or methods) Project Name: HEE'S LN Add: Quote No .: 2127518 PO No.: **ENVIRONMENTAL PROGRAM:** Phone: CWA NPDES _____ IWP_____ SLUDGE _ **Accelerated Turnaround Requested** RCRA MW _____ SW ____ DISPOSAL __ (Subject to Additional Charge) Containers SDWA _____OTHER __ Result Request by: ___ Sampled by: (Date must be Accepted and Approved by Lab) ₽ Client LAB Date: Time: Sample Description Remarks: ID: Sample No. 9/13/01 10'50 PM GW A566287 002160 10:51) 🛣 288 002159 002158 003157 MWOD 202156 1202155 MWA 293 Relinquished by: (Signature) Received by: (Signature) Relinquished by: (Signature) Date/Time Date/Time Received by: (Signature) Relinquished by: (Signature) Received by: (Signature) Date/Time Date/Time Received for Lab by: (\$10 ature) Date/Time Relinquished by: (Signature) Remarks Properly Preserved C&B 9-13-01/20:15 Broken Bottles No-CBO Distribution: White original and Yellow copy to accompany sample to laboratory. Pink copy to be retained by client.

I-106227